

The logo features the text "NASA RECONplus" in white. "NASA" is in a bold, sans-serif font, while "RECONplus" is in a slightly larger, bold, sans-serif font. The text is set against a dark gray oval background with a green diamond-patterned mesh overlay.

NASA  
RECONplus

# **Character-Based Interface (CBI) User Manual**



National Aeronautics and  
Space Administration  
**Scientific and Technical  
Information Office**  
Center for AeroSpace Information

# **RECONplus**

## **Character Based Interface User Manual, Version 1.0**

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# INTRODUCTION

## INTRODUCTION

---

The NASA STI program welcomes you to RECONplus. Whether you are a new user or a previous RECON user, we believe you will find the RECONplus system to be one of the most powerful, flexible, and easy to use information retrieval systems available.

The Character Based Interface (CBI) provides a menu-driven, easy to use interface to RECONplus, giving you access to the full power of the RECONplus system without having to learn the RECONplus Command Language. For those who prefer to search using a command line environment, a command line option is available from the Main Options Menu, allowing you to search using command line search statements while retaining the other advantages of the Character Based Interface.

There are three search modes available within the CBI: Quick Search, which provides a convenient way to quickly do simple searches on the most commonly searched fields; Full Search, which allows the user to construct complex queries; and Command Search, which allows users to construct searches using the RECONplus command language while retaining the other benefits of the Character Based Interface. Before you start searching, however, there are a few things you should know to make getting started easier.

### ▲ About This Manual

The first section of the manual is a description of the structure of the underlying RECONplus database. It is strongly suggested that you familiarize yourself with the material in this section to make your searching most effective. For example, if you don't read this section you might not know that if you wanted to find information from the National Advisory Committee for Aeronautics (NACA) historical file you would want to search one of the databases in the Early Aviation Collection. Additionally, you probably wouldn't be aware that the Early Aviation Collection does not use the current NASA thesaurus but, instead, uses the older NACA thesaurus.

The remaining sections of the manual are references to the CBI and are organized around the structure of the software. Accordingly, the headings of the manual are organized by function and further by menu items of the software. The top level headings are presented in a rectangular box with white text on a black background. The first level of sub-headings are delineated with a solid triangle and correspond to menu items. The second level of sub-headings are represented by an empty triangle and correspond to subordinate menu items.

Lower sub-heading levels are indented but do not have an identifying graphic. They correspond to the lowest menu levels and to significant functional areas of the user screens.

Appendix A of the manual, Scheme of Indexes for the RECONplus Databases, provides a tabular listing that includes associated search tags, index names, field names, search examples, and index types, and indicates whether punctuation and hyphens are allowed. Appendix B is a tabular listing of RECON and RECONplus commands by search function. Appendix C contains the Authorities List, which include country, state, document type, media, and language codes used by RECONplus. Appendix D provides sample RECONplus searches. Appendix E presents common error messages with the circumstances under which they normally occur and solutions. Appendix F compares RECON databases with RECONplus databases, and Appendix G lists and describes the components that may be used in user-selectable display formats.

## ▲ Setup

To use the Character Based Interface to RECONplus, you must be able to connect to our server. Our server's address is **nrsl.casi.sti.nasa.gov**; it uses client software that supports the telnet protocol. Your telnet software must be able to properly emulate a VT100 terminal. To enable the use of the cursor keys, home and end keys, and page up/down keys on the numeric keypad, Num lock must be on. If you are using a system with a standard 101 key keyboard, the cursor keypad will also be active.

The Character Based Interface uses the VT100 character set to draw boxes and menus on the screen. The font you are using in telnet clients, which are capable of using different fonts, may affect the look of what you see on the screen. If the screen is drawn using characters instead of lines, you will want to change fonts to make the screens more readable. On window-based systems, the font "terminal" is usually a good place to start. It is suggested that you use a block cursor since it is more readily visible in the RECONplus screens. It is also advisable to change bold to a color. This makes bold characters easier to read and may correct problems of bold text extending beyond the box on which it is displayed.

## ▲ Search Conventions

### △ Navigation and Help

The Character Based Interface uses VT100 emulation. Its menu structure and features are navigated using the cursor keys and control keys. (See the section Navigating the CBI's Menus.) Most screens contain help information at the bottom of the screen. Context sensitive help is always available by pressing <CTRL-E>.



## △ Search Conventions

**Truncation** is used when you want to find words that begin with a specific letter or text string. When the truncation symbol is used it will substitute for up to 16,000 characters following the letter or phrase that precedes it. If you want to search for authors whose names begin with “Peter,” e.g., Peters, Peterson, Peterman, you could enter the following into the author field:

Peter\*

**Masking** is used when you aren’t sure about the exact spelling of a word. Suppose you want to find the name Smith, but you are not sure whether it is spelled “Smith” or “Smyth.” You could enter:

Sm?th

Multiple question marks (the symbol “?”) may be used for single or multiple adjoining characters within the same string.

**Range Searching** is used when you want to specify a range of numeric values as the object of a search. A range of dates may be expressed by the years only or by the full date in the format YYYYMMDD. For example:

1989:1990    or    19891001:19891222

**Proximity Searching** finds a list of search values within a “window” of text. The proximity clause can include any number from 1 to 100, and it may appear only between two search terms, as follows:

bi fiber W#5 composites  
bi fiber WN#5 composites

W#5 (within 5, 4, 3, 2, or 1 word(s)) performs the proximity operator in word order.

WN#5 performs the proximity operation in no word order, i.e., the first word may precede or follow the second.

Note that only one proximity operator may be used per search clause.

**Case Sensitivity.** The RECONplus system is *not* case sensitive. For example, when you type the name Smith, you may type:

Smith            or    smith            or    SMITH

**Stop Words.** The stop words listed below are words that RECONplus will not use as part of a search term due to the frequency of their occurrence.

AN	BY	FROM	THE	WITH
AND	FOR	OF	TO	

**Break Characters.** Break characters are characters that are not retained when indexing a text string. For example, in the Abstract field the term angle-ply is displayed with the hyphen. However, in the Abstract index, the terms angle and ply are indexed as two separate words. The system treats break characters as “word” separators. The break characters are listed in the table below.

**Special Characters.** Some characters and character strings have special uses within the RECONplus command language. These must be preceded by a forward slash (/) when they are used in a search statement. For example, Texas A&M University must be keyed as Texas A/&M University, because the ampersand (&) is a special character for the AND operator. The character strings “And,” “Or,” or “Not,” when they are used as index search tag values, must be preceded by a forward slash (/). For example, when searching for research and development as a phrase, the word “and” must be keyed as “/AND:” “research /AND development.” The special characters are listed in the table below.

Break Characters		Special Characters	
Open Parenthesis	(	Open Parenthesis	(
Close Parenthesis	)	Close Parenthesis	)
Forward slash	/	Forward slash	/
Backward slash	\	Backward slash	\
Colon	:	Colon	:
Semi-colon	;	Semi-colon (OR)	;
Hyphen	-	Less than	<
Blank <sup>1</sup>		Greater than	>
		Apostrophe	'
		Equal to	=
		Ampersand (AND)	&
		Hyphen	-
		NOT <sup>2</sup>	

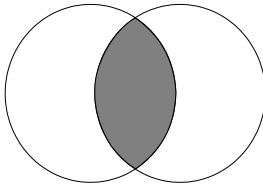
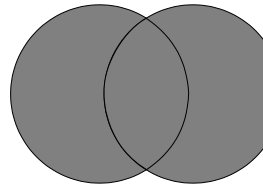
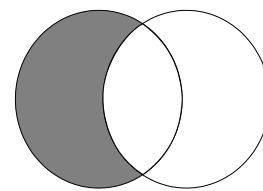
---

<sup>1</sup>A blank space, entered using the space bar, not the arrow keys.

<sup>2</sup>RECONplus uses no symbol for NOT.

**Boolean Searching** permits searches to be broadened, narrowed, or limited using the operators described below. Components of the search include words, terms, phrases, or set numbers.

### Boolean Searching using Sets

Boolean Operators	(Symbols)	Examples
<b>AND</b> The combination of <u>set 1 AND 2</u> equals items common to both sets and narrows the search.	( <b>&amp;</b> )	 <b>#1 AND #2</b> <b>#1 &amp; #2</b>
<b>OR</b> The combination of <u>sets 3 OR 4</u> equals items in either set 3 or 4 and broadens the search.	( <b>;</b> )	 <b>#3 OR #4</b> <b>#3 ; #4</b>
<b>NOT</b> The combination of <u>set 5 NOT set 6 (5 NOT 6)</u> equals items in 5, but not 6, limiting the search.	( <b>Not</b> )	 <b>#5 NOT #6</b>

### Boolean Searching using Index Term Search Tags and Values

Boolean Operators	(Symbols)	Examples
<b>AND</b> Combines two or more values in the same field to narrow a search.	( <b>&amp;</b> )	au CHAMIS, C. C. <b>AND</b> SARAVANOS, D. A. au CHAMIS, C. C. <b>&amp;</b> SARAVANOS, D. A.
<b>OR</b> Combines two or more values in the same field to broaden a search.	( <b>;</b> )	au CHAMIS, C. C. <b>OR</b> SARAVANOS, D. A. au CHAMIS, C. C. <b>;</b> SARAVANOS, D. A.
<b>NOT</b> Excludes values from existing data to limit a search.	( <b>Not</b> )	au CHAMIS, C. C. <b>NOT</b> SARAVANOS, D. A.
<b>NULL</b> (Command Search mode only.) Searches for documents that do not contain the indexed field.		au NULL
<b>NOT NULL</b> (Command Search mode only.) Searches for documents that do contain the indexed field.		au NOT NULL

## △ Limitations

The Find command cannot be more than 4, 000 characters long. The number of documents that may be ordered using the Request-Docs function is limited to 50 documents; the number of copies of each document ordered may not exceed 100 copies.

## ▲ NASA Access Help Desk

CASI staff are available through the NASA Access Help Desk to assist you with additional information, questions, or any errors you encounter while working with RECONplus. To contact the Access Help Desk, call the following number:

**(301) 621-0390**

The NASA Access Help Desk is also available through the Internet at the following address:

**help@sti.nasa.gov**

When calling the NASA Access Help Desk, you should be at your computer and, if possible, prepared to provide the following information:

- Your name and phone number
- The type of hardware you are using
- The exact wording of any messages that appeared on your screen
- Description of the problems including what happened and what you were doing when the problem occurred
- How you tried to solve the problem

Again, welcome to the RECONplus system. We're glad you're on the shuttle with us and we hope you enjoy the ride.

# **ABOUT THE DATABASES**

## ABOUT THE DATABASES

---

This section describes the databases used by RECONplus. The specific database(s) to which you have access and the data you will be able to retrieve depends on your access privileges.

### ▲ Main STI Database (STI)

**Coverage: 1963-Present**

**(Frequency of Update: Weekly)**

The records in this database represent the NASA Open Literature reports, and comprise globally published literature in the fields of aeronautics and space science. Included are periodicals, government sponsored journals, books, and conference proceedings issued from professional and academic organizations. Also included are the unclassified documents announced in the published NASA Scientific and Technical Aerospace Reports (STAR). This includes NASA, NASA contractor, and NASA grantee reports; reports issued by other Government agencies, domestic and foreign institutions, universities, and private firms; translations in report form; and dissertations. These emphasize aeronautics, space science, and supporting disciplines. Also included are Computer Software Management and Information Center (COSMIC) documents, Tech Brief documents, and the Research and Development contract materials. COSMIC documents contain manuscript abstracts of computer programs developed by NASA, the Department of Defense, other Government agencies, and their respective contractors. NASA Tech Briefs are articles on the technical innovations that originate out of the NASA Centers. The Research and Development Contract materials contain information about research and development contracts, grants, and work orders. These items are not documents.

### ▲ Controlled Distribution STI Database (STIL)

**Coverage: 1968-Present**

**(Frequency of Update: Weekly)**

This database is composed of controlled distribution Scientific and Technical Aerospace Reports, which include references to NASA-funded classified and controlled distribution distribution documents. These items are significant and current, emphasizing space science, aeronautics, and supporting disciplines. Also included are the Small Business Innovative Research (SBIR) reports. The controlled distribution status of these references is updated at designated intervals.

## ▲ Older STI Database (STIO)

**Coverage: 1962-1969**

**(Frequency of Update: Closed File)**

The records in this database represent the NASA Open Literature reports, and comprise globally published literature in the fields of aeronautics and space science. Included are periodicals, government sponsored journals, books, and conference proceedings issued from professional and academic organizations. Also included are the unclassified documents announced in the published NASA Scientific and Technical Aerospace Reports (STAR). The documents in STAR are composed of NASA, NASA contractor, and NASA grantee reports; reports issued by other Government agencies, domestic and foreign institutions, universities and private firms; translations in report form; and dissertations. These emphasize aeronautics, space science, and supporting disciplines.

## ▲ Older Controlled Distribution STI Database (STIOL)

**Coverage: 1962-1967**

**(Frequency of Update: Closed File)**

This database is composed of includes controlled distribution Scientific and Technical Aerospace Reports, which include references to NASA-funded classified and controlled distribution distribution documents. The records in this database are from the years of 1962-1967.

## ▲ Early Aviation Collection

The following files are not combined.

## NACA Holdings File (CNACA)

**Coverage: 1915-1960**

**(Frequency of Update: Quarterly)**

The records in this database represent the documents produced by the National Advisory Committee for Aeronautics (NACA) and the documents collected by NACA libraries, both foreign and domestic, about early aviation research and development. These records are converted from NASA ARIN records and include an indication of where copies of the documents are located within NASA.

## **NACA Historical File (NACA)**

**Coverage: 1915-1960**

**(Frequency of Update: Closed File)**

The records in this database contains more than 100,000 catalog cards and technical notes that served as the library shelf list for NACA Committee Headquarters. The records contain reports from foreign and domestic Government agencies and industries.



# **NASA RECONPLUS LOGON**

### ▲ Normal Logon

1. Use local instructions for telnetting to the RECONplus host. CASI's telnet or Internet address is: **nr1s1.casi.sti.nasa.gov**
2. In response to the system's request for your user ID, type your user ID and press **<ENTER>**.
3. In response to the system's request for your password, type your password and press **<ENTER>**.

**NOTE:** The first time you logon to NRIS1, enter the password provided to you when you registered for access to NASA RECONplus. At this time, the system will require you to change this password to a new password of your choice. Then the system will require you to re-enter your new password to verify it. Note that your password must be a minimum of 5 characters, at least one of which must be a numeric character.

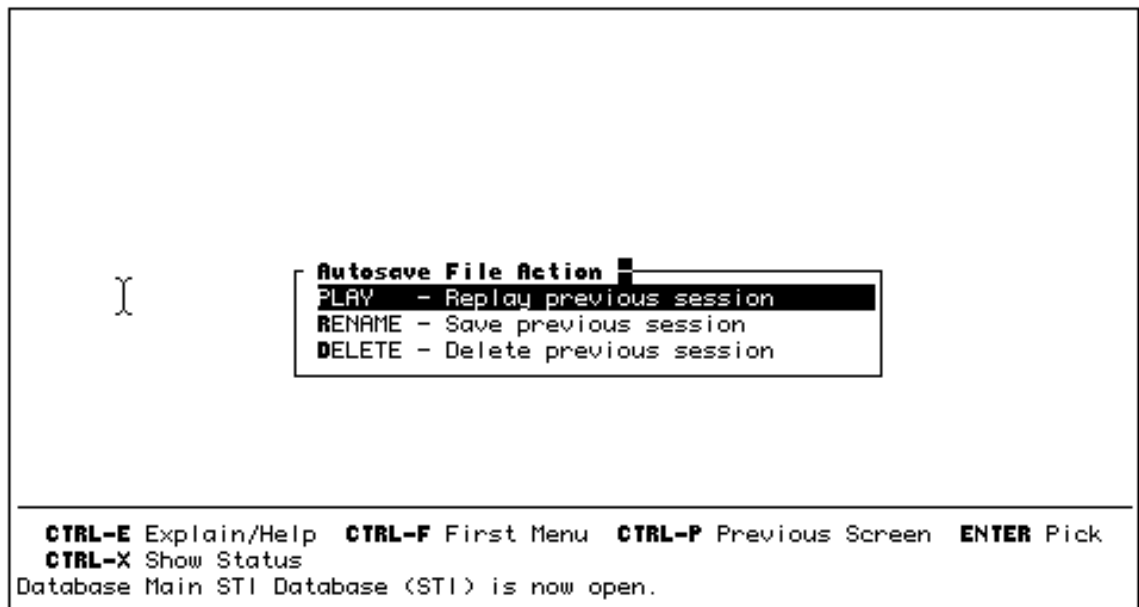
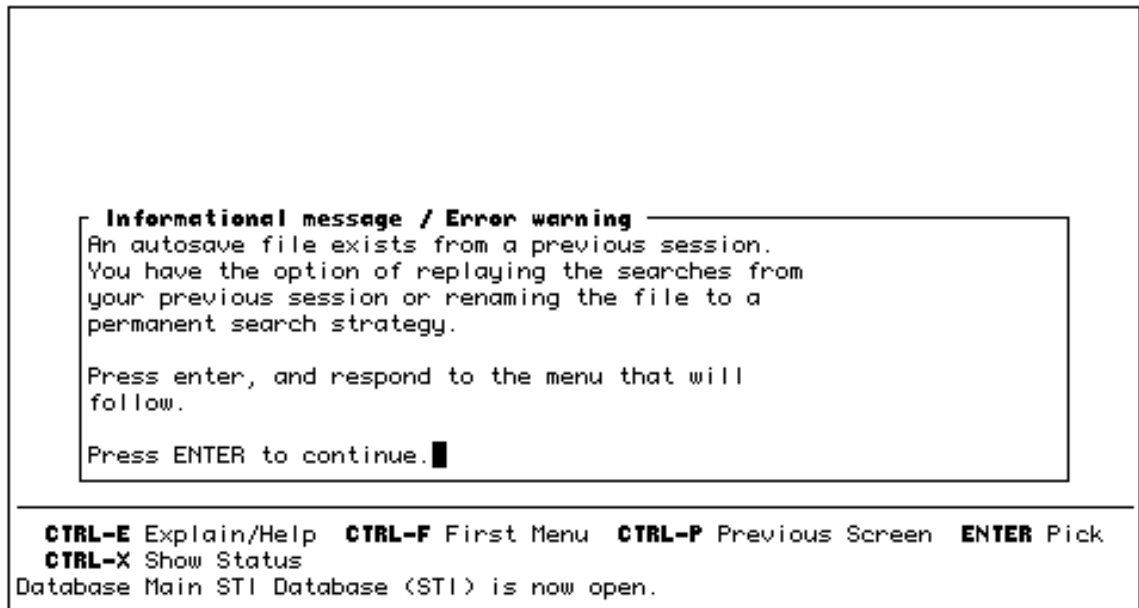
4. The RECONplus Main Menu will be displayed, and the active database will automatically default to the STI Database.

### ▲ Logon and Autosave after Abnormal Exit

Abnormal exits from RECONplus occur when you leave the system by exiting your telnet session without first existing RECONplus using its Exit function (see the section Exit under Searching on RECONplus), or if your telnet software of RECONplus aborts unexpectedly and you are forced to restart your system without properly exiting from either system. When you access NRIS1 after such occurrences, the set created during the previous session will have been saved and you may elect to replay, save, or delete the previous session. To do so, perform the following steps.

1. Complete steps 1 - 3, above.
2. An informational/error message and the Autosave File Action panel, shown on the following page, will be displayed. These notify you of the existence of an autosave file that contains the searches from the session in progress when you exited RECONplus abnormally. They also provide you the capability of replaying the searches from the previous session, saving the autosave file as a stored search, or deleting the searches from the previous session. If you replay or save the search from a previous session, the search

will be performed using the database that was active when you created or last used the search.



3. When you have responded to these screens, normal logon processing will resume. The RECONplus Main Options Menu will be displayed, and the active database will automatically default to the Main STI Database.

## **SEARCHING RECONPLUS**

## SEARCHING RECONPLUS

### ▲ The Main Options Menu Screen

```

Main Options
QUICK SEARCH  FULL SEARCH  COMMAND SEARCH  NEWS
OVERVIEW      SELECT DATABASE  REVIEW/OTHER    EXIT
Search the database using a query by form.

CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
CTRL-X Show Status

```

There are 8 main options in the Character Based Interface:

**Quick Search.** Provides a quick, form-based method for searching the most frequently searched fields.

**Full Search.** Provides a form-based approach to the creation of complex queries.

**Command Search.** Provides the ability to construct searches using the RECONplus command language.

**News.** Provides information about the most up-to-date changes and enhancements to RECONplus and its data.

**Overview.** Provides an overview of the available databases and other information including NASA Access Help Desk contact information.

**Select Database.** Allows selection of the active database.

**Review/Other.** Provides set history and set manipulation options.

**Exit.** Used to exit the CBI.

## ▲ Navigating the CBI's Menus

The menu choices are navigated using the Arrow keys and the Enter key. On a standard 101-key keyboard you may additionally use the numeric keys (the Arrow keys on the numeric keypad). To use the numeric keys, Num Lock must be on.

- The Left and Right Arrow keys are used to move between Main Options Menu items.
- The Enter key causes the menu to “drop down.”
- The Up and Down Arrow keys allow vertical movement through the menus.
- The Home and End keys select the first and last items on the menu, respectively.
- The Enter key is used to choose the desired menu item, once it is highlighted using either the Up and Down Arrow keys or the Home or End keys.

In addition, the following control (CTRL) keys may be used to navigate the specific screens.

<b>CTRL-F</b>	<b>F</b> irst Menu – moves to the first screen within the search mode or the Main Options Menu.
<b>CTRL-P</b>	<b>P</b> revious Screen – moves to previous screen.
<b>CTRL-E</b>	<b>E</b> xplain Help – accesses help.
<b>CTRL-G</b>	<b>G</b> ET – from a list, selects a term.
<b>CTRL-L</b>	<b>L</b> ist Terms – calls index list.
<b>CTRL-B</b>	<b>B</b> ack – moves up a page in displays.
<b>CTRL-N</b>	<b>N</b> ext – moves down a page in displays.
<b>TAB</b>	Moves to the next field or menu entry.
<b>CTRL-A</b>	Toggles between Insert/Overwrite in forms.
<b>CTRL-U</b>	Deletes current line in forms.
<b>CTRL-W</b>	<b>R</b> e <b>W</b> rite – redraws a screen.
<b>DELETE</b>	<b>D</b> eletes the character positioned to the left of the cursor.
<b>CTRL-T</b>	<b>T</b> erm – from index, allows you to specify new starting term.
<b>CTRL-O</b>	<b>S</b> pecify <b>S</b> Ort – specify sort from a form.
<b>CTRL-D</b>	Automatic escape.
<b>CTRL-X</b>	<b>S</b> how Status

The control codes listed above may be used to remap function keys on your keyboard. See your systems documentation or your system administrator. Please be advised that this may hinder the ability of the NASA CASI personnel to assist you with problems.

When the first letter of a main or navigation option is highlighted, you may select the function by pressing the highlighted “hot” key and pressing <**ENTER**>. In a list, pressing the highlighted “hot” key of a list item in a list moves the cursor to that list item.

You may search RECONplus using one of three search modes—Quick Search, Full Search, or Command Search.

## ▲ Quick Search Screen

The CBI's Quick Search screen provides a convenient way to do simple searches on the most commonly searched fields. These include the following:

- the Topic Words/Phrase field, which searches the Basic Index.
- the Document ID Numbers field, which searches the Numbers (NU) index.
- the Date field, which searches the Publications Date (PD) index.
- the Author field, which searches the Author (AU) index.

Descriptions of all RECONplus indexes are provided in Appendix A, Scheme of Indexes.

## Initiating a Search

To search using the Quick Search screen, you must first select Quick Search from the Main Options Menu. To do so, select the Quick Search option and press **<ENTER>**.

```

Main Options
QUICK SEARCH      FULL SEARCH      COMMAND SEARCH    NEWS
OVERVIEW          SELECT DATABASE  REVIEW/OTHER    EXIT
Search the database using a query by form.

CTRL-E Explain/Help  CTRL-F First Menu   CTRL-P Previous Screen  ENTER Pick
CTRL-X Show Status

```

As shown below and on the following pages, you may use one or more, or all, of the fields on the Quick Search screen concurrently. Also depicted on each of the following examples is the Field Description panel, which displays a brief explanation of the field in which your cursor is positioned, and search statements that show how you can use some of the following within-field operators in the Quick Search screen fields.

Use this	To indicate
;	or
&	and
*	right truncation
W#5	proximity-in order
WN#5	proximity-no order
?	wildcard

Within-Field Operators

**Quick Search Screen**

Topic Words/Phrases (Title, Abstract, Index Terms) \_\_\_\_\_  
 fiber;composites

Document ID Numbers \_\_\_\_\_

Date \_\_\_\_\_

Author \_\_\_\_\_

---

Field Description \_\_\_\_\_  
 Search for words or phrases in the basic index.  
 Use ; for OR between terms. Use & for AND between terms.  
 You may use right truncation, \* or the single character wildcard ?,  
 as well as the proximity operators, W#5 and WN#5.

---

Keys \_\_\_\_\_

<b>ENTER</b> Execute Search	<b>CTRL-L</b> List Terms	<b>CTRL-F</b> First Menu
<b>TAB</b> Next Field	<b>CTRL-P</b> Previous Screen	<b>CTRL-E</b> Explain/Help
<b>CTRL-O</b> Specify Sort	<b>CTRL-X</b> Show Status	



**Quick Search Screen**

Topic Words/Phrases (Title, Abstract, Index Terms) \_\_\_\_\_

Document ID Numbers \_\_\_\_\_  
nasatm\*

Date \_\_\_\_\_

Author \_\_\_\_\_

---

Field Description \_\_\_\_\_  
Search by document number.  
Use ; for OR of numbers. Use & for AND between numbers.

---

Keys \_\_\_\_\_

<b>ENTER</b> Execute Search	<b>CTRL-L</b> List Terms	<b>CTRL-F</b> First Menu
<b>TAB</b> Next Field	<b>CTRL-P</b> Previous Screen	<b>CTRL-E</b> Explain/Help
<b>CTRL-O</b> Specify Sort	<b>CTRL-X</b> Show Status	

Quick Search Screen, Document ID Numbers Field

**Quick Search Screen**

Topic Words/Phrases (Title, Abstract, Index Terms) \_\_\_\_\_

Document ID Numbers \_\_\_\_\_

Date \_\_\_\_\_  
>1980

Author \_\_\_\_\_

---

Field Description \_\_\_\_\_  
Search by publication date. You can search by partial date (1988) or  
by the full date (19880101). Use ; for OR of dates, & for AND  
between dates, and : for a range of dates.

---

Keys \_\_\_\_\_

<b>ENTER</b> Execute Search	<b>CTRL-L</b> List Terms	<b>CTRL-F</b> First Menu
<b>TAB</b> Next Field	<b>CTRL-P</b> Previous Screen	<b>CTRL-E</b> Explain/Help
<b>CTRL-O</b> Specify Sort	<b>CTRL-X</b> Show Status	

Quick Search Screen, Date Field

**Quick Search Screen**

Topic Words/Phrases (Title, Abstract, Index Terms) \_\_\_\_\_  
 \_\_\_\_\_

Document ID Numbers \_\_\_\_\_  
 \_\_\_\_\_

Date \_\_\_\_\_  
 \_\_\_\_\_

Author \_\_\_\_\_  
 cham?sa

---

Field Description

Search for authors. Use ; for OR of authors. Use & for AND of authors. Names are in the form **Last, First Middle, Suffix**. Only the Last name is required.

---

Keys

<b>ENTER</b> Execute Search	<b>CTRL-L</b> List Terms	<b>CTRL-F</b> First Menu
<b>TAB</b> Next Field	<b>CTRL-P</b> Previous Screen	<b>CTRL-E</b> Explain/Help
<b>CTRL-O</b> Specify Sort	<b>CTRL-X</b> Show Status	

Quick Search Screen, Author Field

Note that the following conventions apply when you use the Quick Search screen:

- Assumed AND between fields.
- Automatic author truncation after entry of the comma following the last name.
- More than one field can be filled before submitting the search.
- Automatic adjacency if multiple terms are entered in Topic Words/Phrases.

## Executing the Search

When you have completed all desired fields, press <ENTER> to execute the search. Your search will be executed, and the results will be displayed in the Search Result panel. (The search results shown below resulted from executing the search statement in the last example on the previous page: Author=Cham?s.)

The screenshot shows a terminal window titled "Quick Search Screen". It contains several input fields: "Topic Words/Phrases (Title, Abstract, Index Terms)", "Document ID Numbers", "Date", and "Author". The "Author" field contains the text "cham?s". To the right of the "Author" field, a "Search Result" panel displays "Search Set 2: 32 Records". Below the input fields, there is a "Field Descript" section with instructions: "Search for authors. Use ; for OR of authors. Use & for AND of authors. Names are in the form Last, First Middle, Suffix. Only the Last name is required." At the bottom, a "Keys" section lists various keyboard shortcuts: ENTER Execute Search, TAB Next Field, CTRL-O Specify Sort, CTRL-L List Terms, CTRL-P Previous Screen, and CTRL-X Show Status. There are also shortcuts for CTRL-F First Menu and CTRL-E Explain/Help.

Quick Search Screen		
Topic Words/Phrases (Title, Abstract, Index Terms)		
Document ID Numbers		
Date		
Author	Search Result - Press Enter to Continue	
cham?s	Search Set 2: 32 Records	
Field Descript		
Search for authors. Use ; for OR of authors. Use & for AND of authors. Names are in the form Last, First Middle, Suffix. Only the Last name is required.		
Keys		
ENTER Execute Search	CTRL-L List Terms	CTRL-F First Menu
TAB Next Field	CTRL-P Previous Screen	CTRL-E Explain/Help
CTRL-O Specify Sort	CTRL-X Show Status	

When the Search Result panel is displayed, press <ENTER> to continue. If no results are returned from the search, RECONplus redisplay the Quick Search screen with your originating search statement(s). If the search yields results, as shown on the following page, a Search Set panel will be displayed that shows the number RECONplus has assigned to your search set and the number of records resulting from the search. It also provides three options for manipulating your search set: displaying results, performing a new search, or revising the existing search. These options may be selected by typing the highlighted hot key of the desired option and pressing <ENTER>.

Selecting Display Results from the Search Set panel yields the same display formats in all three search modes—Quick Search, Full Search, and Command Search—and therefore is discussed in the section Display of Search Results, under Manipulating RECONplus Search Results. Revising an existing search, creating a new search, and recalling a previous search, and re-executing a search in a different database are discussed in the following sections.

## Revising an Existing Search

Selecting the Revise-Search option from the Search Set panel activates the RECONplus Command Search editing function. To do so, highlight the Revise-Search option on the Search Set panel.

**Quick Search Screen**

Topic Words/Phrases (Title, Abstract, Index Terms) \_\_\_\_\_

Document ID Numbers \_\_\_\_\_

Date \_\_\_\_\_

Author \_\_\_\_\_  
cham?s

Field Description \_\_\_\_\_  
Search for authors. Use ; for OR of authors. Use & for  
AND of authors. Names are in the form **Last, First Middle, Suffix**  
Only the Last name is required.

**Search Set 2: 32 Records** \_\_\_\_\_

**DISPLAY-RESULTS**      **NEW-SEARCH**      **REVISE-SEARCH**

**REVISE** the current **SEARCH**, keeping previous entries.

When you select the Revise-Search function from a Search Set panel that shows at least one record in the set, your present search statement is redisplayed.

**Quick Search Screen**

Topic Words/Phrases (Title, Abstract, Index Terms)

Document ID Numbers

Date

Author

cham?S

Field Description

Search for authors. Use ; for OR of authors. Use & for AND of authors. Names are in the form **Last, First Middle, Suffix**. Only the Last name is required.

Keys

<b>ENTER</b> Execute Search	<b>CTRL-L</b> List Terms	<b>CTRL-F</b> First Menu
<b>TAB</b> Next Field	<b>CTRL-P</b> Previous Screen	<b>CTRL-E</b> Explain/Help
<b>CTRL-O</b> Specify Sort	<b>CTRL-X</b> Show Status	

You may revise your search statement by adding values to the current search field(s) or by adding values in the other search fields.

In the following example, the search for Author = "Cham?s" is revised by adding the Topic Words/Phrases "fiber & composites."

**Quick Search Screen**

Topic Words/Phrases (Title, Abstract, Index Terms)

fiber&composites

Document ID Numbers

Date

Author

cham?s

Field Description

Search for words or phrases in the general index.  
Use ; for OR between terms. Use & for AND between terms.  
You may use right truncation, \* or the single character wildcard ?,  
as well as the proximity operators, W#5 and WN#5.

Keys

ENTER Execute Search

CTRL-L List Terms

CTRL-F First Menu

TAB Next Field

CTRL-P Previous Screen

CTRL-E Explain/Help

CTRL-O Specify Sort

CTRL-X Show Status

When all revisions to the original search statement have been entered, press <ENTER> to execute your revised search statement.

## Creating a New Search

Quick Search Screen

Topic Words/Phrases (Title, Abstract, Index Terms)

fiber&composites

Document ID Numbers

Date

Author

cham?s

Field Description

Search for words or phrases in the general index.  
Use ; for OR between terms. Use & for AND between terms.  
You may use right truncation, \* or the single character wildcard ?,  
as well as the proximity operators, W#5 and WN#5.

Search Set 3: 21 Records

DISPLAY-RESULTS

NEW-SEARCH

REVISE-SEARCH

Create a NEW SEARCH, clearing the screen of previous entries.

Selecting the New-Search function from the Search Set panel clears the current search statement and permits entry of a new search statement. To do so, highlight the New-Search option on the Search Set panel and press <ENTER>.

Quick Search Screen

Topic Words/Phrases (Title, Abstract, Index Terms)

Document ID Numbers

Date

Author

Field Description

Search for words or phrases in the general index.  
Use ; for OR between terms. Use & for AND between terms.  
You may use right truncation, \* or the single character wildcard ?,  
as well as the proximity operators, W#5 and WN#5.

Keys

ENTER Execute Search

CTRL-L List Terms

CTRL-F First Menu

TAB Next Field

CTRL-P Previous Screen

CTRL-E Explain/Help

CTRL-O Specify Sort

CTRL-X Show Status

## **Re-executing a Search in a Different Database**

A search previously executed in one database can be re-executed in a different database. To do so, select a new database from the Select Database option on the Main Options Menu. The new database is now the active database in which all subsequent searches will be performed until you change the selection or exit and re-enter RECONplus.

If the search you want to re-execute is a stored search, select Replay Stored Search from the Review/Other options on the Main Options Menu. (See section on Replaying a Stored Search.) When the search is replayed it is executed in the currently active database and a new result set is created.

If the search you want to re-execute was executed earlier in a current search session and has not been saved, see the section Recalling a Previous Search under the section Command Search Screen in the full manual. When the search is recalled, it is executed against the currently active database and a new result set is created.



## ▲ Full Search Screen

The CBI's Full Search screen provides an easy-to-use mechanism for constructing complex searches.

### Initiating a Search

To search using the Full Search screens, you must first select Full Search from the Main Menu. To do so, select the Full Search option by pressing **F** and then **<ENTER>**.

```

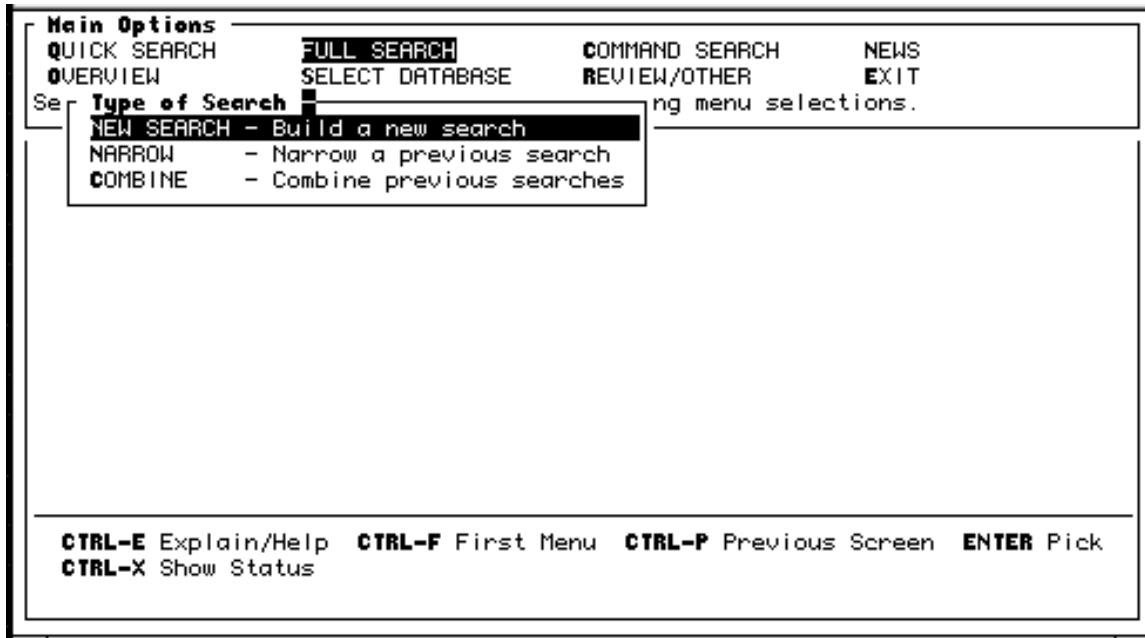
Main Options
QUICK SEARCH    FULL SEARCH    COMMAND SEARCH    NEWS
OVERVIEW        SELECT DATABASE    REVIEW/OTHER      EXIT
Search the database by building a search using menu selections.

CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
CTRL-X Show Status

```

## Selecting a Type of Search

When Full Search is chosen from the Main Options Menu, the Type of Search panel will be displayed.



The Type of Search panel permits you to choose one of the following three options:

- **New Search** – allows you to create a new search.
- **Narrow** – allows you to refine an existing search.
- **Combine** – allows you to create a new search by combining existing searches.

You may select a Type of Search by using the Up and Down Arrow keys to highlight the desired Search Type name or using the highlighted hot key and pressing <ENTER>.

To initiate a New Search, press <ENTER>.

## Selecting a Field to Search

When you have selected the search type, the Field to Search panel is displayed, prompting you to specify the field you want to search. The fields are presented in alphabetical order by assigned search tag.

The screenshot displays a terminal window with the following content:

```
Main Options
QUICK SEARCH    FULL SEARCH    COMMAND SEARCH    NEWS
OVERVIEW        SELECT DATABASE  REVIEW/OTHER      EXIT

Set Type of Search
NEW
NAR
COM
Field to Search
AA - Author Affiliation
AAW - Author Affiliation (Word)
AN - Accession Number
AU - Author (using variations)
AU - Author
BI - Basic Index
CD - Contract Date
CL - Security Classification
CN - Contract/Grant Number
CO - Country/International Org.

CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
CTRL-X Show Status
```

You may select a field to search by using the Up and Down Arrow keys to highlight the desired field name and pressing **<ENTER>**. You may also navigate among the field names by pressing the highlighted letter; this will put your cursor “in the neighborhood” of the key you pressed.

Our search example is using the Author (AU) field, so AU-Author is selected above. You may want to use the AU-Author (Using Variations) field when you are unsure of the indexed format of an author’s name, e.g., whether an author’s name was indexed with his or her full name spelled out or abbreviated in part. The following example illustrates the difference in search statements generated when the AU-Author (Using Variations) and AU-Author fields are selected and the same value is entered.

Field	Value	Resulting Search Statement
AU-Author (Using Variations)	smith, john harry	AU smith, john harry;smith, j. harry;smith, john h.; smith, j.h.
AU-Author	smith, john harry	AU smith, john harry

RECONplus fields and their indexes are explained in Appendix A, Scheme of Indexes for the RECONplus Databases.

## Selecting NASA Thesaurus Terms

There are special indexes for controlled vocabulary terms: CTMJ (Controlled Terms - Major) and CT (Controlled Terms). The CTMJ contains only NASA thesaurus terms assigned at the major level of importance to the document. The CT contains all terms, both major and minor assignments. The following screens illustrate how—when these fields are selected from the Field to Search panel, Index is selected at the Search Term Method panel, and a value is entered at the Jump In Index panel—the index is displayed in Thesaurus presentation with broader, narrower, and related terms and scope notes.

The screenshot displays a terminal-style interface for the RECONplus system. At the top, under 'Main Options', are buttons for 'QUICK SEARCH', 'FULL SEARCH', 'COMMAND SEARCH', and 'NEWS'. Below these are 'OVERVIEW', 'SELECT DATABASE', 'REVIEW/OTHER', and 'EXIT'. A 'Ser' label is followed by 'Type of Search' and a note 'ing menu selections.'.

The 'Field to Search' section lists 'NEW', 'NAR', 'COM', 'AN', 'AU', and 'BI'. 'AN' is selected, with a description '- Accession Number'. The 'Search Term Method' section lists 'EXACT MATCH - enter a term directly' and 'INDEX - use an index lookup (LOOK)'. 'INDEX' is selected.

The 'Jump in Index' section has a prompt 'Enter a Stem>' with the input 'fiber'.

Below this, a list of index types is shown: 'CO - Country/International Org.', 'CT - Controlled Index Term', and 'CTMJ - Major Controlled Index Term'. 'CTMJ' is selected.

At the bottom, a legend defines keyboard shortcuts: 'CTRL-E Explain/Help', 'CTRL-F First Menu', 'CTRL-P Previous Screen', 'ENTER Pick', and 'CTRL-X Show Status'.

#Recs - Thesaurus Terms	
0	FIBER BRIDGING
1	USE CRACK BRIDGING
150	FIBER COMPOSITES
549	BT COMPOSITE MATERIALS
0	NT ARAMID FIBER COMPOSITES
1	BRAIDED COMPOSITES
36	CARBON FIBER REINFORCED PLASTICS
1	CARBON-PHENOLIC COMPOSITES
18	GLASS FIBER REINFORCED PLASTICS
0	KOVEN COMPOSITES
1	RT ALUMINUM BORON COMPOSITES
3	ALUMINUM GRAPHITE COMPOSITES
0	ARAMID FIBERS
2	BORON FIBERS
2	BORON REINFORCED MATERIALS
CTRL-G Get/Drop CTRL-T Jump	
Selected Terms	

The number of records (# Recs) within the database that your access level allows you to view is displayed to the left of each term. Thesaurus terms that do not occur in the database or that your access level will not permit you to view and terms that are non-preferred such as Fiber Bridging have zero postings. Scope notes (SN), Broader Than (BT), Narrower Than (NT), and Related to (RT) indicators are also displayed to the left of the terms. Highlighting the SN area and pressing <ENTER> displays the full text of the scope note and definition.

Terms may be selected from the Thesaurus Terms panel by highlighting and pressing <CTRL-G>. The term will then appear in the Selected Terms panel. All terms in the Selected Terms panel are automatically connected with an OR (;) operator. Use <CTRL-T> to jump to a different section of the thesaurus or use the Up and Down arrow keys to move within the screen. After several screens, the phrase MORE TERMS will be displayed as the last entry. Press <ENTER> to retrieve more terms.

When you are finished selecting terms, press <ENTER> to add the clause to your search.

## Selecting a Search Operator

When you have selected the field to search, if the field is a number or date field, the Search Operators panel is displayed, prompting you to specify a search operator.

You may select a search operator by using the Up and Down Arrow keys to highlight the desired search operator name and pressing <ENTER>.

The screenshot displays the RECONplus CBI interface. At the top, the 'Main Options' menu includes: QUICK SEARCH, FULL SEARCH (highlighted), COMMAND SEARCH, NEWS, OVERVIEW, SELECT DATABASE, REVIEW/OTHER, and EXIT. Below this, the 'Type of Search' menu is open, showing options: NEW (highlighted), NAR, and COM. The 'Field to Search' menu is also open, listing: AN, AU (highlighted), BI, CD, CL, CN (highlighted), CO, CT, and CTMJ. A 'Search Operators' panel is overlaid on the right, listing operators: '=' (highlighted), '<>', '<', '>', '<=', and '>='. Each operator is followed by its description: '- is equal to', '- is NOT equal to', '- is less than', '- is greater than', '- is less than or equal to', and '- is greater than or equal to'. At the bottom, a legend defines keyboard shortcuts: CTRL-E Explain/Help, CTRL-F First Menu, CTRL-P Previous Screen, ENTER Pick, and CTRL-X Show Status.

```
Main Options
QUICK SEARCH  FULL SEARCH  COMMAND SEARCH  NEWS
OVERVIEW      SELECT DATABASE  REVIEW/OTHER  EXIT

Se Type of Search
NEW NAR
COM

Field to Search
AN
AU
BI
CD
CL
CN
CO
CT
CTMJ

Search Operators
= - is equal to
<> - is NOT equal to
< - is less than
> - is greater than
<= - is less than or equal to
>= - is greater than or equal to

- Controlled Index Term
- Major Controlled Index Term

CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
CTRL-X Show Status
```

## Selecting a Search Term

The Search Term Method panel is displayed when you have elected to search a number or date field and then selected a Search Operator, or, as in our example of an author search, you have selected a field other than a number or date field from the Field to Search panel.

The screenshot shows a terminal window with a menu-driven interface. At the top, there are four main options: QUICK SEARCH, FULL SEARCH (highlighted), COMMAND SEARCH, and NEWS. Below these are OVERVIEW, SELECT DATABASE, REVIEW/OTHER, and EXIT. A sub-menu titled 'Type of Search' is open, showing options: NEW (highlighted), NAR, and COM. Another sub-menu titled 'Field to Search' is open, showing options: AN (Accession Number), AU (highlighted), and BI. A third sub-menu titled 'Search Term Method' is open, showing options: EXACT MATCH - enter a term directly (highlighted) and INDEX - use an index lookup <LOOK> (highlighted). Below this is a 'Jump in Index' section with the prompt 'Enter a Stem>' and the text 'chamis'. At the bottom, there are three more options: CO (Country/International Org.), CT (Controlled Index Term), and CTMJ (Major Controlled Index Term). At the very bottom, there are four control options: CTRL-E Explain/Help, CTRL-F First Menu, CTRL-P Previous Screen, and ENTER Pick.

```
Main Options
QUICK SEARCH    FULL SEARCH    COMMAND SEARCH  NEWS
OVERVIEW        SELECT DATABASE REVIEW/OTHER     EXIT
Se Type of Search
NEW Field to Search
NAR AN - Accession Number
COM AU - Search Term Method
    AU - EXACT MATCH - enter a term directly
    BI - INDEX - use an index lookup <LOOK>
      Jump in Index
      Enter a Stem> chamis
        CO - Country/International Org.
        CT - Controlled Index Term
        CTMJ - Major Controlled Index Term

CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
CTRL-X Show Status
```

The Search Term Method panel permits you to choose one of the following two search methods:

- **Exact Match** – Enter a term directly.
- **Index** – use an index lookup.

You may select a search term method by using the Up and Down Arrow keys to highlight the desired type and pressing <ENTER>. If you select Exact Match, you will be prompted to enter the exact term with which you want to search.

If you select Index, the Jump In Index panel will be displayed, prompting you to enter the stem (portion of a search value) or complete word for an index “lookup.” (In this example, "chamis" has been entered.) To “lookup” the stem in the index, type the stem or whole value and press <ENTER>.

When you have completed the Jump In Index panel and pressed **<ENTER>**, the appropriate Index and Selected Terms panels will be displayed. The first term that contains the stem will be highlighted in the Index panel.

If the highlighted term is the search term you want to use, press **<CTRL-G>** to copy it to the Selected Terms panel.

The screenshot displays a terminal window with two main panels. The top panel, titled "Index for: AU", lists various names and counts in parentheses. The entry "CHAMIS, C. C. (< 361)" is highlighted with a thick black bar. Below this list, the text "CTRL-G Get/Drop CTRL-T Jump" is visible. The bottom panel, titled "Selected Terms", contains the text "CHAMIS, C. C.".

Index for: AU	
CHAMIGNON, C. (<	2)
CHAMIGNON, CHRISTEL (<	1)
CHAMINADE, GILLES (<	1)
CHAMINADE, J. P. (<	2)
CHAMINANT, G. (<	2)
CHAMIS, A. Y. (<	1)
CHAMIS, C. (<	1)
<b>CHAMIS, C. C. (&lt;</b>	<b>361)</b>
CHAMIS, CHRIS C. (<	1)
CHAMIS, CHRISTOS (<	1)
CHAMIS, CHRISTOS C. (<	152)
CHAMIS, CRISTOS C. (<	1)
CHAMITOFF, GREGORY E. (<	1)
CHAMITOFF, GREGORY ERROL (<	1)
CHAMKHA, A. J. (<	1)

CTRL-G Get/Drop    CTRL-T Jump

Selected Terms	
CHAMIS, C. C.	

If the highlighted term is not the search term you want to use, press **<CTRL-G>** to deselect it. If you want to use more than one search term, highlight each term you want to use and press **<CTRL-G>** to include each one on the Selected Terms panel. You may include up to 20 search terms or the maximum that will display on the Selected Terms panel. Note that multiple terms selected for the Selected Terms panel are joined with an automatic Or operator (;). To join terms from the same index with an And operator (&) or to change to another index, you must press **<ENTER>** and follow the directions for the Next Action panel.

You may also use **<CTRL-T>** to "jump" to other index terms. When **<CTRL-T>** is pressed, the Jump In Index panel will be displayed and you may enter another stem.

When you are finished selecting terms, press **<ENTER>**. The Next Action menu will be displayed.



When you have selected one or more search term(s) and pressed <ENTER>, the Next Action panel will be displayed.

<b>Main Options</b>	
QUICK SEARCH	<b>FULL SEARCH</b>
OVERVIEW	SELECT DATABASE
Se	COMMAND SEARCH
Next Action	REVIEW/OTHER
	NEWS
	EXIT
	lections.
<b>Next Action</b>	
<b>FIND</b>	- execute the search
<b>OR</b>	- add more clauses, using OR
<b>AND</b>	- add more clauses, using AND
<b>NOT</b>	- add more clauses, using NOT
<b>SORT</b>	- add a sort clause
<b>REVIEW</b>	- see search criteria entered so far
<b>DISPLAY</b>	- display the results of your search
 <b>CTRL-E</b> Explain/Help <b>CTRL-F</b> First Menu <b>CTRL-P</b> Previous Screen <b>ENTER</b> Pick <b>CTRL-X</b> Show Status	

The Next Action panel permits you to choose one of the following actions, thereby executing your search, reviewing your “to-date” search criteria, or displaying your search results.

- **Find** – Executes the search.
- **Or** – Allows you to add more clauses using "OR."
- **And** – Allows you to add more clauses using "AND."
- **And Not** – Allows you to add more clauses using "AND NOT."
- **Order by** – Allows you to add sort clauses.
- **Review** – Allows you to review the search criteria entered to that point.
- **Display** – Allows you to display the results of your search.

To select an action, use the Up and Down Arrow keys to highlight the desired action or press the appropriate hot key letter and press <ENTER>.

## Executing the Search

When you select Find from the Next Action panel, your search statement is executed. The results of your search (which comprise the number of records found, formed into a single set that is numbered) are displayed in the Search Result panel.

The screenshot displays the RECONplus CBI interface. At the top, the 'Main Options' panel includes 'QUICK SEARCH', 'OVERVIEW', 'FULL SEARCH' (highlighted), 'SELECT DATABASE', 'COMMAND SEARCH', 'REVIEW/OTHER', 'NEWS', and 'EXIT'. Below this is the 'Next Action' panel with a list of options: 'FIND' (highlighted), 'OR', 'AND', 'NOT', 'SORT', 'REVIEW', and 'DISPLAY', each with a brief description. A 'Search Result' panel is shown below the Next Action panel, displaying 'Search Set 1: 361 Records'. At the bottom, a status bar provides keyboard shortcuts: 'CTRL-E Explain/Help', 'CTRL-F First Menu', 'CTRL-P Previous Screen', 'ENTER Pick', and 'CTRL-X Show Status'.

```

Main Options
QUICK SEARCH
OVERVIEW
FULL SEARCH
SELECT DATABASE
COMMAND SEARCH
REVIEW/OTHER
NEWS
EXIT
Sections.

Next Action
FIND - execute the search
OR - add more clauses, using OR
AND - add more clauses, using AND
NOT - add more clauses, using NOT
SORT - add a sort clause
REVIEW - see search criteria entered so far
DISPLAY - display the results of your search

Search Result - Press Enter to Continue

Search Set 1: 361 Records

CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
CTRL-X Show Status

```

The Search Result panel is removed from the screen by pressing <ENTER>. The Next Action panel will remain on the screen so that you may modify the search or display the results.

Selecting Display from the Next Action panel yields the same display formats in all three search modes—Quick Search, Full Search, and Command Search—and therefore is discussed in the section Display of Search Results under Manipulating RECONplus Search Results. Revision of the search statement is discussed in the following sections, as is re-executing a search in a different database.

## Revising an Existing Search

An existing search strategy can be revised under the Full Search mode by using the Next Action panel.

The Full Search mode's Next Action panel, in addition to allowing you to execute your search strategy and display your results, provides the capabilities of adding OR, AND, NOT clauses to your existing search strategy; adding Sort clauses to your existing search strategy, and reviewing your existing search statement(s).

<b>Main Options</b>	
QUICK SEARCH	<b>FULL SEARCH</b>
OVERVIEW	SELECT DATABASE
	COMMAND SEARCH
	REVIEW/OTHER
	NEWS
	EXIT
Sections.	
Se	<b>Next Action</b>
	<b>FIND</b> - execute the search
	<b>OR</b> - add more clauses, using OR
	<b>AND</b> - add more clauses, using AND
	<b>NOT</b> - add more clauses, using NOT
	<b>SORT</b> - add a sort clause
	<b>REVIEW</b> - see search criteria entered so far
	<b>DISPLAY</b> - display the results of your search
<b>CTRL-E</b> Explain/Help <b>CTRL-F</b> First Menu <b>CTRL-P</b> Previous Screen <b>ENTER</b> Pick	
<b>CTRL-X</b> Show Status	

## Adding OR, AND, NOT Clauses

You may, for example, expand our “au CHAMIS, C. C.” sample search to include other search criteria and create a search strategy like:

“au chamis, c. c. **OR** saravanos, d. a. **AND** bi composites **NOT** dt nasa tech brief”

You may also add a Sort criteria to this strategy so that the results may be displayed in a particular order, such as author:

“au chamis, c. c. **OR** saravanos, d. a. **AND** bi composites **NOT** dt nasa tech brief  
**SORTED BY** author”

To begin revising the original search strategy (“au CHAMIS, C. C.”) to create this sample revised strategy, select OR from the Next Action panel, AU from the Field to Search panel, and Exact Match from the Search Term Method panel.

The screenshot displays the RECONplus CBI search interface. At the top, there are four main options: QUICK SEARCH, FULL SEARCH (highlighted), COMMAND SEARCH, and NEWS. Below these are OVERVIEW, SELECT DATABASE, REVIEW/OTHER, and EXIT. The main menu is divided into several sections. The 'Next Action' section lists: FIN, OR (highlighted), AND, NOT, SOR, REV, and DIS. The 'Field to Search' section lists: AA - Author Affiliation, AAW - Search Term Method (highlighted), AN - EXACT MATCH - enter a term directly (highlighted), AU - INDEX - use an index lookup (LOOK) (highlighted), BI - Basic Index, CD - Contract Date, CL - Security Classification, CN - Contract/Grant Number, and CO - Country/International Org. The 'Search Term Method' section lists: BI - Basic Index, CD - Contract Date, CL - Security Classification, CN - Contract/Grant Number, and CO - Country/International Org. At the bottom, there are keyboard shortcuts: CTRL-E Explain/Help, CTRL-F First Menu, CTRL-P Previous Screen, ENTER Pick, and CTRL-X Show Status.

When you select Exact Match from the Select Term Method panel, the Search String panel is displayed and you may enter the second author name. Then select Find at the Next Action panel. The results of the broadened search will be displayed on the Search Results panel.

<b>Main Options</b>			
QUICK SEARCH	<b>FULL SEARCH</b>	COMMAND SEARCH	NEWS
OVERVIEW	SELECT DATABASE	REVIEW/OTHER	EXIT
Se <b>Next Action</b> _____ lections.			
<b>FIN</b>	<b>Field to Search</b> _____		
<b>OR</b>	AA - Author Affiliation		
<b>AND</b>	AAW - Search Term Method		
<b>Search String</b>			
String? saravanos, d. a.			
Enter an Author name. Names should be in the form <b>Last, First Middle, Suffix.</b> Only the Last name is required.			
CN - Contract/Grant Number CO - Country/International Org.			
<b>CTRL-E</b> Explain/Help <b>CTRL-F</b> First Menu <b>CTRL-P</b> Previous Screen <b>ENTER</b> Pick <b>CTRL-X</b> Show Status			

<b>Main Options</b>			
QUICK SEARCH	<b>FULL SEARCH</b>	COMMAND SEARCH	NEWS
OVERVIEW	SELECT DATABASE	REVIEW/OTHER	EXIT
Se <b>Next Action</b> _____ lections.			
<b>FIND</b>	- execute the search		
<b>OR</b>	- add more clauses, using OR		
<b>AND</b>	- add more clauses, using AND		
<b>NOT</b>	- add more clauses, using NOT		
<b>SORT</b>	- add a sort clause		
<b>REVIEW</b>	- see search criteria entered so far		
<b>DISPLAY</b>	- display the results of your search		
<b>Search Result - Press Enter to Continue</b>			
Search Set 3: 382 Records			
<b>CTRL-E</b> Explain/Help <b>CTRL-F</b> First Menu <b>CTRL-P</b> Previous Screen <b>ENTER</b> Pick <b>CTRL-X</b> Show Status			

The screenshot shows the 'Main Options' menu with the following structure:

- Main Options**
  - QUICK SEARCH
  - OVERVIEW
- FULL SEARCH** (highlighted)
  - SELECT DATABASE
- COMMAND SEARCH**
  - REVIEW/OTHER
- NEWS**
  - EXIT

Below the menu, the text 'Se Next Action' is visible. A series of annotations (boxes and lines) trace the user's path:

- A box labeled 'Se' points to the 'FULL SEARCH' option.
- A box labeled 'Next' points to the 'SELECT DATABASE' option.
- A box labeled 'Action' points to the 'Field to Search' option.
- A box labeled 'FIN' points to the 'Field to Search' option.
- A box labeled 'OR' points to the 'Field to Search' option.
- A box labeled 'AND' points to the 'Field to Search' option.
- A box labeled 'NOT' points to the 'Field to Search' option.
- A box labeled 'SOR' points to the 'Field to Search' option.
- A box labeled 'REV' points to the 'Field to Search' option.
- A box labeled 'DIS' points to the 'Field to Search' option.
- A box labeled 'Field to Search' points to the 'Field to Search' option.
- A box labeled 'Search Method' points to the 'Search Method' option.
- A box labeled 'SIMPLE WORD LIST' points to the 'SIMPLE WORD LIST' option.
- A box labeled 'INDEX SELECTION' points to the 'INDEX SELECTION' option.
- A box labeled 'PHRASE SEARCH' points to the 'PHRASE SEARCH' option.
- A box labeled 'BI' points to the 'BI' option.
- A box labeled 'CD' points to the 'CD' option.
- A box labeled 'CL' points to the 'CL' option.
- A box labeled 'CN' points to the 'CN' option.
- A box labeled 'CO' points to the 'CO' option.

The 'Field to Search' and 'Search Method' options are highlighted in the original image. The 'SIMPLE WORD LIST' option is also highlighted. The 'BI' option is highlighted in the original image.

At the bottom of the screen, the following text is visible:

**CTRL-E** Explain/Help    **CTRL-F** First Menu    **CTRL-P** Previous Screen    **ENTER** Pick  
**CTRL-X** Show Status

```

Main Options
QUICK SEARCH      FULL SEARCH      COMMAND SEARCH    NEWS
OVERVIEW          SELECT DATABASE  REVIEW/OTHER      EXIT

Se  Next Action
   FIN  Field to Search
   OR   AA  Search Method
   AND  AAW  SIMPLE WORD LIST - enter a 1
   Search Term
   Term? █
           select wo
           search on
           █

           CL  - Security Classification
           CN  - Contract/Grant Number
           CO  - Country/International Org

Selected Terms
composites

CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
CTRL-X Show Status

```

When you have entered "COMPOSITES" on the Selected Terms panel, press <ENTER> again. When the Next Action panel is displayed, select Find to execute the revised search. The results of your narrowed search statement will be displayed in the Search Results panel.

Main Options	
QUICK SEARCH	FULL SEARCH
OVERVIEW	SELECT DATABASE
	COMMAND SEARCH
	REVIEW/OTHER
	NEWS
	EXIT

Search Next Action

FIND	- execute the search
OR	- add more clauses, using OR
AND	- add more clauses, using AND
NOT	- add more clauses, using NOT
SORT	- add a sort clause
REVIEW	- see search criteria entered so far
DISPLAY	- display the results of your search

Search Result - Press Enter to Continue

Search Set 4: 375 Records

CTRL-E	Explain/Help	CTRL-F	First Menu	CTRL-P	Previous Screen	ENTER	Pick
CTRL-X	Show Status						

To finish building your search statement, press <ENTER>. The Next Action panel will be displayed. Select NOT from the Next Action panel and DT from the Field to Search panel. Then select Exact Match from the Search Term Method panel, enter "NASA Tech Brief" in the Search String panel, and press <ENTER>.

<b>Main Options</b>		<b>FULL SEARCH</b>		<b>COMMAND SEARCH</b>		<b>NEWS</b>	
QUICK SEARCH		SELECT DATABASE		REVIEW/OTHER		EXIT	
OVERVIEW						lections.	
Se	<b>Next Action</b>						
FIN	<b>Field to Search</b>						
OR	CD - Contract Date						
AND	CL - <b>Search Term Method</b>						
NOT	CN - EXACT MATCH - enter a term directly						
SOR	CO - INDEX - use an index lookup (LOOK)						
REV	CT -						
DIS	CTMJ - Major Controlled Index Term						
	CTW - Controlled Index Term (Word)						
	DN - Document Number						
	DS - Distribution Status						
	DT - Document Type						
<b>CTRL-E</b> Explain/Help <b>CTRL-F</b> First Menu <b>CTRL-P</b> Previous Screen <b>ENTER</b> Pick <b>CTRL-X</b> Show Status							

<b>Main Options</b>		<b>FULL SEARCH</b>		<b>COMMAND SEARCH</b>		<b>NEWS</b>	
QUICK SEARCH		SELECT DATABASE		REVIEW/OTHER		EXIT	
OVERVIEW						lections.	
Se	<b>Next Action</b>						
FIN	<b>Field to Search</b>						
OR	CD - Contract Date						
AND	CL - <b>Search Term Method</b>						
	<b>Search String</b>						
	String? NASA Tech Briefs						
DIS	CTMJ - Major Controlled Index Term						
	CTW - Controlled Index Term (Word)						
	DN - Document Number						
	DS - Distribution Status						
	DT - Document Type						
<b>CTRL-E</b> Explain/Help <b>CTRL-F</b> First Menu <b>CTRL-P</b> Previous Screen <b>ENTER</b> Pick <b>CTRL-X</b> Show Status							



When you enter "NASA Tech Brief" in the Search String panel, the Next Action panel will be redisplayed. Select Find to execute your search; the results will be displayed in the Search Results panel.

<b>Main Options</b>	
QUICK SEARCH	<b>FULL SEARCH</b>
OVERVIEW	SELECT DATABASE
	COMMAND SEARCH
	REVIEW/OTHER
	NEWS
	<b>EXIT</b>

Se Next Action

<b>FIND</b>	- execute the search
<b>OR</b>	- add more clauses, using OR
<b>AND</b>	- add more clauses, using AND
<b>NOT</b>	- add more clauses, using NOT
<b>SORT</b>	- add a sort clause
<b>REVIEW</b>	- see search criteria entered so far
<b>DISPLAY</b>	- display the results of your search

**Search Result - Press Enter to Continue**

Search Set 5: 375 Records

<b>CTRL-E</b> Explain/Help	<b>CTRL-F</b> First Menu	<b>CTRL-P</b> Previous Screen	<b>ENTER</b> Pick
<b>CTRL-X</b> Show Status			

## Adding Sort Clauses

To complete our sample search statement, you may add a Sort clause to specify the order in which you want the results displayed. To do so, select Sort from the Next Action panel. Then select the field you want to use for sorting. The Fields on Which to Sort panel provides the capability of sorting in ascending (A-Z) or descending (Z-A) order and also allows you to clear any existing sorts.

The screenshot displays a terminal window with the following layout:

- Main Options**: QUICK SEARCH, **FULL SEARCH**, COMMAND SEARCH, NEWS, OVERVIEW, SELECT DATABASE, REVIEW/OTHER, EXIT.
- Next Action**: Ser, Next Action, lections.
- Fields on which to sort**: Clear Existing Sorts, [-- Ascending --], Accession Number, Author, Contract Date, Document Number, File Segment, Language, Major Controlled Index Term, Media.
- CTRL-G Get/Drop**: [X]
- Current Sort String**: [Empty field]
- so far search**: [Empty field]

When you have selected your Sort criteria, press **<ENTER>** to return to the Next Action panel. Then select Display to view the sorted records.

The results of this sample sort, ascending by author, is depicted on the following pages.

Shown first is the original, unsorted display of the sample search results.

<b>CTRL-G Select/Deselect Record</b>			
<b>Item</b>	<b>DocNum</b>	<b>Author</b>	<b>Title</b>
1	19950054055	Mital, S. K.	Micromechanics for ceramic matrix
2	19950028443	Saravanes, D. A.	Integrated damping mechanics for thick
3	19950022428	Chamis, C. C.	IPACS (Integrated Probabilistic
4	19950021856	Reddy, E. S.	Analysis of aircraft engine blade
5	19950020754	Shah, A. R.	Probabilistic simulation of long term
6	19950017043	Lee, H.-J.	A coupled layerwise analysis of the
7	19950016838	Saravanes, D. A.	Effects of delaminations on the damped
8	19950013256	Chamis, C. C.	Ice-impact analysis of blades
9	19950010855	Chamis, C. C.	Probabilistic simulation of stress
10	19940032156	Chamis, C. C.	Process/composite concurrent tailoring
11	19940029393	Saravanes, D. A.	Coupled electromechanical response of
12	19940019853	Chamis, C. C.	Multi-disciplinary coupling for
13	19940019844	Chamis, C. C.	Probabilistic simulation of concurrent
14	19940015697	Chamis, C. C.	Multi-disciplinary coupling effects
15	19940009568	Murthy, P. L. N.	Hierarchical nonlinear behavior of hot
16	19940006307	Chamis, C. C.	Computational simulation of hot
<b>CTRL-E</b> Explain/Help <b>CTRL-F</b> First Menu <b>CTRL-P</b> Previous Screen <b>ENTER</b> Pick <b>VIEW</b> <b>NXT-REC</b> <b>DN-PAGE</b> <b>FIRST-REC</b> <b>OUTPUT</b> <b>LABEL</b> <b>PRV-REC</b> <b>UP-PAGE</b> <b>REQUEST-DOC</b> <b>SUBSET</b> <b>VIEW</b> the contents of the current record.			

The second screen shows the display of search results, sorted by author.

<b>CTRL-G Select/Deselect Record</b>			
<b>Item</b>	<b>DocNum</b>	<b>Author</b>	<b>Title</b>
1	19930003009	Abumeri, G. H.	Dynamic analysis of a pre-and-post ice
2	19930029336	Abumeri, G. H.	Dynamic analysis of a pre-and-post ice
3	19820014392	Riello, R. A.	Structural dynamics of shroudless,
4	19820051921	Riello, R. A.	Structural dynamics of shroudless,
5	19830004190	Riello, R. A.	Large displacements and stability
6	19920000090	Riello, R. A.	Composite-Blade Structural Analyzer
7	19930012999	Blake, T. A.	Optimal design of composite hip
8	19930036315	Blake, T. A.	Numerical optimization of composite
9	19880045086	Boyce, L.	Probabilistic constitutive
10	19890043472	Boyce, L.	Probabilistic constitutive
11	19910047212	Boyce, L.	Quantification of uncertainties in
12	19920038457	Boyce, L.	Probabilistic constitutive
13	19930017515	Brown, H. C.	Fiber shape effects on metal matrix
14	19830048519	Brown, K. W.	Structural tailoring of engine blades
15	19850048162	Brown, K. W.	Finite element engine blade structural
16	19870046374	Brown, K. W.	Structural tailoring of advanced
<b>CTRL-E</b> Explain/Help <b>CTRL-F</b> First Menu <b>CTRL-P</b> Previous Screen <b>ENTER</b> Pick <b>VIEW</b> <b>NXT-REC</b> <b>DN-PAGE</b> <b>FIRST-REC</b> <b>OUTPUT</b> <b>LABEL</b> <b>PRV-REC</b> <b>UP-PAGE</b> <b>REQUEST-DOC</b> <b>SUBSET</b> <b>VIEW</b> the contents of the current record.			

The third display, which shows the first record in the sorted set and lists Chamis, C. C. as the fourth author in the AU field, illustrates how RECONplus sorts only the first occurrence of a multiple occurring field.

```

Dynamic analysis of a pre-and-post ice impacted blade ----- Doc 1 of 376
19930003009 N (93N12197) IM
Unclassified (Unrestricted - Publicly Available)

TI:    Dynamic analysis of a pre-and-post ice impacted blade
AU:    Abumeri, G. H. (Sverdrup Technology, Inc.)/Reddy, E. S. (Sverdrup
        Technology, Inc.)/Murthy, P. L. N. (NASA Lewis Research Center)/Chamis
        , C. C. (NASA Lewis Research Center)
RN:    NASA-TM-105829 PJN: RTOP 505-68-1C)
DT:    Conference Paper
LA:    English
OS:    NASA Lewis Research Center (Cleveland, OH, United States)
FS:    NASA (United States)
SO:    Aircraft Design Systems Meeting
PB:    United States
PD:    Oct 01, 1992
MN:    Aircraft Design Systems Meeting, Hilton Head, SC, 24-26 Aug. 1992
MS:    AIAA
AU:    Hardcopy - CASI A03 (20p)/Microfiche - CASI A01 (20p)
----- Line 1: 18 of 36
CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
NXT-REC  DN-PAGE    OUTPUT      FORMAT
PRV-REC  UP-PAGE    REQUEST-DOC
Move to the NEXT RECORD within the current search set.

```

## Reviewing the Existing Search Statements

RECONplus allows you to review your existing search statement(s). To do so, highlight Review from the Next Action Panel and press <ENTER>.

The screenshot shows the RECONplus Main Options menu. At the top, there are four columns of options: QUICK SEARCH, FULL SEARCH (highlighted), COMMAND SEARCH, and NEWS; OVERVIEW, SELECT DATABASE, REVIEW/OTHER, and EXIT. Below these is a 'Next Action' panel with a list of actions: FIND, OR, AND, NOT, SORT, REVIEW (highlighted), and DISPLAY. Each action has a brief description. At the bottom, there is a footer with keyboard shortcuts: CTRL-E Explain/Help, CTRL-F First Menu, CTRL-P Previous Screen, ENTER Pick, and CTRL-X Show Status.

```
Main Options
QUICK SEARCH    FULL SEARCH    COMMAND SEARCH  NEWS
OVERVIEW        SELECT DATABASE REVIEW/OTHER     EXIT
Se Next Action
FIND            - execute the search
OR              - add more clauses, using OR
AND             - add more clauses, using AND
NOT            - add more clauses, using NOT
SORT           - add a sort clause
REVIEW         - see search criteria entered so far
DISPLAY        - display the results of your search

CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
CTRL-X Show Status
```

Your current search criteria will be displayed on the Review screen.

The screenshot shows the RECONplus Review screen. It displays the search criteria entered so far, organized into four groups: Search Criteria 1, Search Criteria 2, Search Criteria 3, and Search Criteria 4. Each group is preceded by a separator line of asterisks. The criteria are: AU chamis, c. c.; AU saravanos, d. a.; BI fiber; and DT nasa tech brief. At the bottom, there is a footer with keyboard shortcuts: CTRL-E Explain/Help, CTRL-F First Menu, CTRL-P Previous Screen, ENTER Pick, and CTRL-X Show Status.

```
Main Options
QUICK SEARCH    FULL SEARCH    COMMAND SEARCH  NEWS
OVERVIEW        SELECT DATABASE REVIEW/OTHER     EXIT
Search Criteria --- Press any Key to continue
Search Criteria 1:
AU chamis, c. c.
***** OR *****
Search Criteria 2:
AU saravanos, d. a.
***** AND *****
Search Criteria 3:
BI fiber
***** AND NOT *****
Search Criteria 4:
DT nasa tech brief

CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
CTRL-X Show Status
```

## **Re-executing a Search in a Different Database**

A search previously executed in one database can be re-executed in a different database. To do so, select a new database from the Select Database option on the Main Menu. The new database is now the active database in which all subsequent searches will be performed until you change the selection or exit and re-enter RECONplus.

If the search you want to re-execute is a stored search, select Replay Stored Search from the Review/Other option on the Main Menu. (See the section *Replaying a Stored Search*.) When the search is replayed it is executed in the currently active database and a new result set is created.

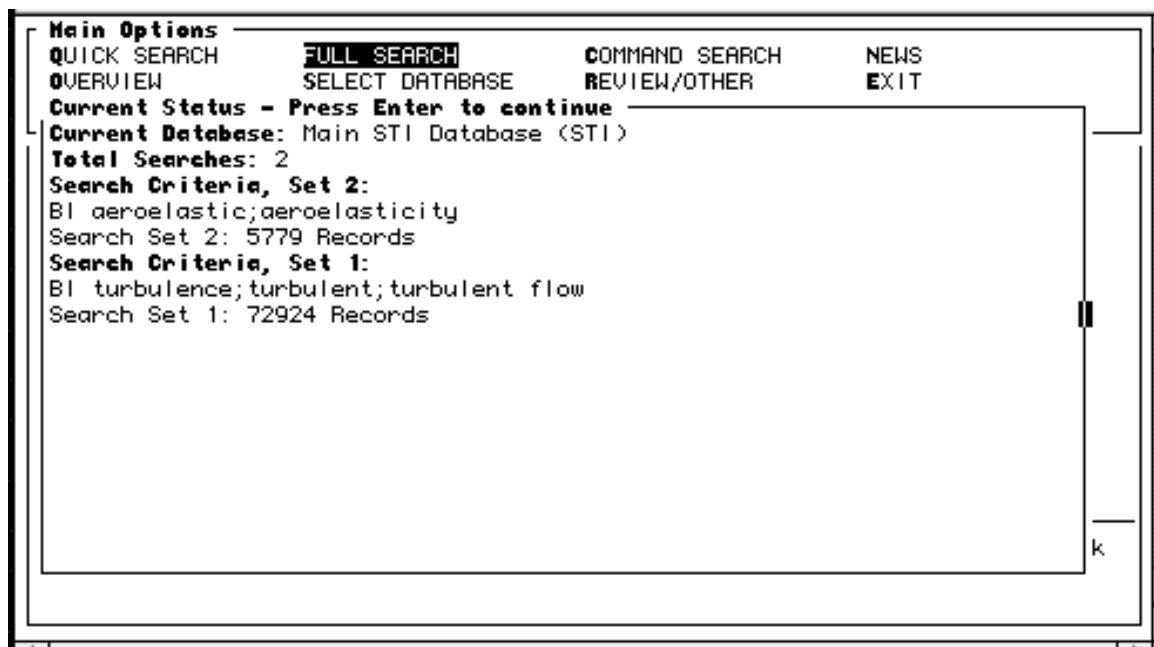
If the search you want to re-execute was executed earlier in the current search session and has not been saved, see the section *Recalling a Previous Search under Command Search Screen*. When the search is recalled, it is executed against the currently active database and a new result set is created.

## Narrowing and Combining Search Sets

The results of previous searches can be revised under the Full Search mode by returning to the Type of Search panel and selecting Narrow or Combine. Selecting Narrow presents the previous search with the option to add an additional clause to a previous search. If Combine is selected, a list of the previous sets is displayed. The additional clause is always “Anded” to the previous search. The results create a new set.

While many complex searches can be entered as a single statement in RPCL, these functions permit you to build the statement in segments.

As each search statement is executed, the system creates a set of the results. A set number is assigned to each set. The last 10 set numbers can be viewed by pressing <CTRL-X> at any time.



In addition, all sets from the session can be viewed by returning to the RECONplus Main Menu (using <CTRL-F>), selecting Review/Other, and then selecting History.

## Narrowing Search Sets

To narrow a search set, return to the Type of Search panel and select Narrow.

The screenshot displays a terminal window with a menu system. At the top, under 'Main Options', there are four columns of options: 'QUICK SEARCH', 'FULL SEARCH' (highlighted), 'COMMAND SEARCH', and 'NEWS'; 'OVERVIEW', 'SELECT DATABASE', 'REVIEW/OTHER', and 'EXIT'. Below this is a 'Type of Search' panel with three options: 'NEW SEARCH - Build a new search', 'NARROW - Narrow a previous search' (highlighted), and 'COMBINE - Combine previous searches'. To the right of this panel, the text 'ng menu selections.' is visible. At the bottom of the window, a status bar contains the following text: 'CTRL-E Explain/Help', 'CTRL-F First Menu', 'CTRL-P Previous Screen', 'ENTER Pick', 'CTRL-X Show Status', and 'Set Selection Cancelled'.

Selecting Narrow presents the previous sets with the option to add an additional clause to a previous search. The additional clause is always “Anded” to the previous search to narrow the results and the results create a new set.

To add an additional clause, select Narrow from the Type of Search panel.



Then select the set you want to narrow from the Select Set panel.

The screenshot shows the 'Select Set' panel within the RECONplus CBI interface. At the top, under 'Main Options', there are four buttons: 'QUICK SEARCH', 'FULL SEARCH' (highlighted), 'COMMAND SEARCH', and 'NEWS'. Below these are 'OVERVIEW', 'SELECT DATABASE', 'REVIEW/OTHER', and 'EXIT'. The 'Select Set' panel itself contains two options: 'Set 2 (5779 Records) BI aeroelastic;aeroelasticity' (highlighted) and 'Set 1 (72924 Records) BI turbulence;turbulent;turbulent flow'. At the bottom, there is a legend for keyboard shortcuts: 'CTRL-E Explain/Help', 'CTRL-F First Menu', 'CTRL-P Previous Screen', 'ENTER Pick', 'CTRL-X Show Status', and 'Set selection cancelled'.

When you have selected the set you want to narrow, select the field you want to use to narrow the search at the Field to Search panel. Then select either Exact Match or Index from the Search Term Method panel. In this example, the Exact Match option is selected.

The screenshot shows the 'Field to Search' and 'Search Term Method' panels. The 'Field to Search' panel has a 'Type of Search' section with 'NEW', 'NAR' (highlighted), and 'COM'. Below this is a list of fields: 'BI - Basic Index', 'CD - Search Term Method' (highlighted), 'CL - EXACT MATCH - enter a term directly' (highlighted), 'CN - INDEX - use an index lookup (LOOK)', 'CO', 'CT - Controlled Index Term', 'CTMJ - Major Controlled Index Term', 'DN - Document Number', 'DS - Distribution Status', and 'DT - Document Type'. The 'Search Term Method' panel is also visible, showing 'EXACT MATCH' and 'INDEX'. At the bottom, the same keyboard shortcuts as in the previous screenshot are listed: 'CTRL-E Explain/Help', 'CTRL-F First Menu', 'CTRL-P Previous Screen', 'ENTER Pick', 'CTRL-X Show Status'.

Type the value NASA Tech Brief in the Search String panel and press <ENTER>. Adding this clause to your search statement will narrow the previous set to only those records that refer to NASA Tech Briefs.

<b>Main Options</b>													
QUICK SEARCH	<b>FULL SEARCH</b>	COMMAND SEARCH	NEWS										
OVERVIEW	SELECT DATABASE	REVIEW/OTHER	EXIT										
Se <b>Type of Search</b> _____ ing menu selections.													
NEW	<b>Field to Search</b> _____												
NAR	BI	- Basic Index											
COM	CD	- Search Term Method											
<b>Search String</b>													
String? technical report													
<table border="1"> <tr> <td>CT</td> <td>- Controlled Index Term</td> </tr> <tr> <td>CTMJ</td> <td>- Major Controlled Index Term</td> </tr> <tr> <td>DN</td> <td>- Document Number</td> </tr> <tr> <td>DS</td> <td>- Distribution Status</td> </tr> <tr> <td><b>DT</b></td> <td><b>- Document Type</b></td> </tr> </table>				CT	- Controlled Index Term	CTMJ	- Major Controlled Index Term	DN	- Document Number	DS	- Distribution Status	<b>DT</b>	<b>- Document Type</b>
CT	- Controlled Index Term												
CTMJ	- Major Controlled Index Term												
DN	- Document Number												
DS	- Distribution Status												
<b>DT</b>	<b>- Document Type</b>												
<b>CTRL-E</b> Explain/Help <b>CTRL-F</b> First Menu <b>CTRL-P</b> Previous Screen <b>ENTER</b> Pick <b>CTRL-X</b> Show Status													

When the Next Action panel is redisplayed, execute your search. The results of your narrowed search will be displayed on the Search Result panel, in a new set.

<b>Main Options</b>																	
QUICK SEARCH	<b>FULL SEARCH</b>	COMMAND SEARCH	NEWS														
OVERVIEW	SELECT DATABASE	REVIEW/OTHER	EXIT														
Se <b>Next Action</b> _____ lections.																	
<table border="1"> <tr> <td><b>FIND</b></td> <td>- execute the search</td> </tr> <tr> <td>OR</td> <td>- add more clauses, using OR</td> </tr> <tr> <td>AND</td> <td>- add more clauses, using AND</td> </tr> <tr> <td>NOT</td> <td>- add more clauses, using NOT</td> </tr> <tr> <td>SORT</td> <td>- add a sort clause</td> </tr> <tr> <td>REVIEW</td> <td>- see search criteria entered so far</td> </tr> <tr> <td>DISPLAY</td> <td>- display the results of your search</td> </tr> </table>				<b>FIND</b>	- execute the search	OR	- add more clauses, using OR	AND	- add more clauses, using AND	NOT	- add more clauses, using NOT	SORT	- add a sort clause	REVIEW	- see search criteria entered so far	DISPLAY	- display the results of your search
<b>FIND</b>	- execute the search																
OR	- add more clauses, using OR																
AND	- add more clauses, using AND																
NOT	- add more clauses, using NOT																
SORT	- add a sort clause																
REVIEW	- see search criteria entered so far																
DISPLAY	- display the results of your search																
<b>Search Result - Press Enter to Continue</b>																	
Search Set 3: 1238 Records																	
<b>CTRL-E</b> Explain/Help <b>CTRL-F</b> First Menu <b>CTRL-P</b> Previous Screen <b>ENTER</b> Pick <b>CTRL-X</b> Show Status Set selection cancelled																	

## Combining Search Sets

Sets can be combined using Full Search by returning to the RECONplus Main Menu, selecting Full Search, and, when the Type of Search panel is displayed, selecting Combine.

The screenshot shows the RECONplus Main Menu with the following options:

Main Options			
QUICK SEARCH	<b>FULL SEARCH</b>	COMMAND SEARCH	NEWS
OVERVIEW	SELECT DATABASE	REVIEW/OTHER	EXIT

Below the main menu, the 'Type of Search' panel is displayed, showing the following options:

Type of Search	
NEW SEARCH	- Build a new search
NARROW	- Narrow a previous search
<b>COMBINE</b>	- Combine previous searches

At the bottom of the screen, the following keyboard shortcuts are listed:

CTRL-E	CTRL-F	CTRL-P	ENTER
Explain/Help	First Menu	Previous Screen	Pick
CTRL-X	Show Status		

When Combine is selected from the Type of Search panel, the Select Set panel is displayed. This panel allows you select two or more sets to combine. To do so, highlight the first set for your Combine command and press <ENTER>. Note that the sets and operators must be selected in the proper order.

```

Main Options
QUICK SEARCH      FULL SEARCH      COMMAND SEARCH    NEWS
OVERVIEW          SELECT DATABASE  REVIEW/OTHER      EXIT

Se  Select Set █
    Set 3 (83952 Records) 1 AND DT technical report
    Set 2 (5776 Records) BI aeroelastic;aeroelasticity
    Set 1 (72894 Records) BI turbulence;turbulent;turbulent flow

CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
CTRL-X Show Status
Select first set.

```

When you select the first set to be included in your Combine command, the Boolean Combine Argument panel will be displayed. Highlight the Boolean operator you want to use and press <ENTER>.

```

Main Options
QUICK SEARCH      FULL SEARCH      COMMAND SEARCH    NEWS
OVERVIEW          SELECT DATABASE  REVIEW/OTHER      EXIT
Se Boolean combine argument
OR                - find union of 2 sets
AND               - find intersection of 2 sets
NOT               - find differences of 2 sets
actions.

CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
CTRL-X Show Status

#1

```

**NOTE:** Multiple operators can be used to combine sets. The order of operation is NOT, AND, OR. Parentheses cannot be used in Combine statements created through the Full Search mode.

When you select the Boolean operator you want, the Select Set panel will be redisplayed to allow you to select the remaining set(s) for your Combine command. Select the remaining set(s) and press <ENTER>.

<b>Main Options</b>			
QUICK SEARCH	<b>FULL SEARCH</b>	COMMAND SEARCH	NEWS
OVERVIEW	SELECT DATABASE	REVIEW/OTHER	<b>EXIT</b>
Se	<b>Select Set</b>		
	Set 3 (1238 Records) #2 AND DT technical report		
	<b>Set 2 (5779 Records) BI aeroelastic;aeroelasticity</b>		
	Set 1 (72924 Records) BI turbulence;turbulent;turbulent flow		
<b>CTRL-E</b> Explain/Help <b>CTRL-F</b> First Menu <b>CTRL-P</b> Previous Screen <b>ENTER</b> Pick <b>CTRL-X</b> Show Status Select additional set.			

The Boolean Combine Argument panel will be displayed listing the Boolean operators as well as the Find and Display commands. When you have selected all the sets you want to combine, select Find from the Boolean Combine Argument panel.

<b>Main Options</b>			
QUICK SEARCH	<b>FULL SEARCH</b>	COMMAND SEARCH	NEWS
OVERVIEW	SELECT DATABASE	REVIEW/OTHER	<b>EXIT</b>
Se	<b>Boolean combine argument</b>		
	OR - find union of 2 sets		
	AND - find intersection of 2 sets		
	NOT - find differences of 2 sets		
	<b>FIND - perform the combined search</b>		
	DISPLAY - display the results of a combine		
actions.			
<b>CTRL-E</b> Explain/Help <b>CTRL-F</b> First Menu <b>CTRL-P</b> Previous Screen <b>ENTER</b> Pick <b>CTRL-X</b> Show Status #1 AND #2			

Your combined search statement results will be displayed in a Search Results panel.

<b>Main Options</b>			
QUICK SEARCH	<b>FULL SEARCH</b>	COMMAND SEARCH	NEWS
OVERVIEW	SELECT DATABASE	REVIEW/OTHER	EXIT
Se <b>Type of Search</b> <span style="float: right;">ng menu selections.</span>			
NEW SEARCH - Build a new search			
NARROW - Narrow a previous search			
<b>COMBINE - Combine previous searches</b>			
[ Search Result - Press Enter to Continue ]			
Search Set 4: 262 Records█			
<hr/>			
CTRL-E Explain/Help    CTRL-F First Menu    CTRL-P Previous Screen    ENTER Pick			
CTRL-X Show Status			
#1 AND #2			

To display the results of your combined search statement, press **<ENTER>** at the Search Results panel. The Boolean Combine Argument panel will be redisplayed. Select Display and press **<ENTER>**.

<b>Main Options</b>			
QUICK SEARCH	<b>FULL SEARCH</b>	COMMAND SEARCH	NEWS
OVERVIEW	SELECT DATABASE	REVIEW/OTHER	EXIT
Se <b>Boolean combine argument</b> <span style="float: right;">ections.</span>			
OR - find union of 2 sets			
AND - find intersection of 2 sets			
NOT - find differences of 2 sets			
FIND - perform the combined search			
<b>DISPLAY - display the results of a combine</b>			
[ Search Result - Press Enter to Continue ]			
Search Set 4: 262 Records█			
<hr/>			
CTRL-E Explain/Help    CTRL-F First Menu    CTRL-P Previous Screen    ENTER Pick			
CTRL-X Show Status			
#3 OR #3			

## ▲ Command Search Screen

The CBI's Command Search screen allows you to construct searches using the RECONplus command language while retaining the other benefits of the CBI.

### Initiating a Search

To search using the Command Search screen, you must first select Command Search from the Main Menu. To do so, select the Command Search option by pressing **C** and then **<ENTER>**.

```

Main Options
QUICK SEARCH      FULL SEARCH      COMMAND SEARCH    NEWS
OVERVIEW          SELECT DATABASE  REVIEW/OTHER      EXIT
Search the database using a query command line.

CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
CTRL-X Show Status

```



When Command Search is selected from the Main Menu, the Command Search screen is displayed. This screen provides you the capability of entering a RECONplus Command Language (RPCL) statement, which is composed of the fields you want to search along with values for those fields.

The screenshot shows a terminal window titled "Command Search". Inside the window, there is a section labeled "Enter Command" followed by a cursor and a series of horizontal lines for text entry. Below this section is a "Keys" section containing a legend of keyboard shortcuts and their functions.

Keys		
<b>ENTER</b>	Execute Search	<b>CTRL-P</b> Previous Screen
<b>CTRL-L</b>	Expand Index/Field List	<b>CTRL-F</b> First Menu
<b>CTRL-E</b>	Explain/Help	<b>CTRL-X</b> Show Status
		<b>CTRL-O</b> Specify Sort

## Entering a Typed Command

For example, you may want to search for an author name of Chamis or Saravanos. With Command Search, you may simply type a RPCL statement such as the one below and press <ENTER> to initiate your search.

AU chamis ; saravanos

The basic format of the Find Command,, is as follows (note that the spaces are optimal):

**<Index Name Search Tag>space<value>**

If you are searching more than one value in a field, a Within-Field Operator (and, or, not) must be inserted between the value statements:

**<Index Name Search Tag>space<value>space<Within-Field Operator>space<value>**

If you are searching more than one index field, a Between-Field Operator (and, or, not) must be inserted between each field statement:

**<Index Name Search Tag>space<value>space<Between-Field Operator>space<Index Name Search Tag>space<value>**

Complex searches can be built by combining multi-value and multi-field statements. It is important to remember that the order in which the operations are performed is NOT, AND, OR. If only a single Boolean operator is used, the statement is executed from left to right. To ensure that your statement is interpreted correctly, use parentheses.

Multiple sets of parentheses may be used within the same statement. However, parentheses cannot be nested. Brackets and braces may not be used. Note that entry of the command is not case sensitive; it may be any combination of upper and lower case.

For example, the system default would treat the statement “AEROELASTICITY OR AEROELASTIC AND TURBULENCE” by finding the documents with aeroelastic and turbulence and then those that contain aeroelasticity. It is more like that the synonyms aeroelasticity and aeroelastic should be treated together. To ensure that this occurs, the statement must be entered as follows: “(AEROELASTICITY OR AEROELASTICITY) AND TURBULENCE.” The system will find all documents containing the words aeroelasticity or aeroelastic and then within those documents, those that also contain the word turbulence. When you are in doubt about the order in which the RPCL statement will be processed, it is best to include parentheses to avoid any confusion.

When you have typed the command, press <ENTER> to execute. The results of such a search, and how you may use them are described in the following sections.

## Building and Entering a Command

Instead of typing your command, you may build it using the Expand Index/Field List option shown at the bottom of the Command Search Screen. Use of the Expand Index/Field List option is especially helpful when you are not sure of the proper syntax or the available indexed terms.

To access the Expand Index/Field List option, press <CTRL-L> at the Command Search screen. The What to Show? panel will be displayed.

The screenshot shows a terminal window titled "Command Search". On the left, there is a label "Enter Comm" followed by a vertical list of horizontal lines for input. To the right of this is a panel titled "What to show?". This panel contains two options: "Index terms/thesaurus for current field" and "List of searchable fields". The second option is highlighted with a black background. Below the "What to show?" panel is a large area with many horizontal lines for output. At the bottom of the screen is a "Keys" section with the following information:

<b>ENTER</b>	Execute Search	<b>CTRL-P</b>	Previous Screen	<b>CTRL-F</b>	First Menu
<b>CTRL-L</b>	Expand Index/Field List	<b>CTRL-X</b>	Show Status		
<b>CTRL-E</b>	Explain/Help				

The first option on the What to Show? Panel provides access to a list of the indexed terms/thesaurus for the current field. To build your command, you'll want to access the List of Searchable Fields from the What to Show? panel, select the desired searchable field, and then access the Index terms/thesaurus for the field you selected (the current field).

To select the List of Searchable Fields options from the What to Search? Panel, type **L** and press **<Enter>**. The Field to Search panel will be displayed.

The screenshot shows a terminal window titled "Command Search". At the top, there is a label "Enter Command" followed by a horizontal line. Below this, a list titled "Field to Search" is displayed. The list contains the following items:

- AA - Author Affiliation
- AAW - Author Affiliation (Word)
- AN - Accession Number
- AU - Author (using variations)
- AU - Author** (highlighted)
- BI - Basic Index
- CD - Contract Date
- CL - Security Classification
- CN - Contract/Grant Number
- CO - Country/International Org.

Below the list, there are several empty lines for input. At the bottom of the window, a "Keys" section lists the following shortcuts:

<b>ENTER</b> Execute Search	<b>CTRL-P</b> Previous Screen	<b>CTRL-F</b> First Menu
<b>CTRL-L</b> Expand Index/Field List		<b>CTRL-X</b> Show Status
<b>CTRL-E</b> Explain/Help		<b>CTRL-O</b> Specify Sort

Select the field you want to search by using the Up and Down Arrow keys or pressing the highlighted hot key. When you have highlighted the field you want to search, press **<ENTER>**.

If no field, or index is selected, the default is the Basic Index (BI).

If the field name is followed by the term “(word)” the field is the “word-based” index that is equivalent to a similarly named field that is phrase-based. For example, Controlled Term index entries are composed of the entire organization name, indexed as a phrase. The Controlled Term (Word) contains entries made up of the individual words in the organization name.

**NOTE:** Our search example is using the Author (AU) field, so AU-Author is selected above. You may want to use the AU-Author (Using Variations) field when you are unsure of the indexed format of an author’s name, e.g., whether an author’s name was indexed with his or her full name spelled out or abbreviated in part. The following example illustrates the difference in search statements generated when the AU-Author (Using Variations) and AU-Author fields are selected and the same value is entered.

Field	Value	Resulting Search Statement
AU-Author (Using Variations)	smith, john harry	AU smith, john harry;smith, j. harry;smith, john h.; smith, j.h.
AU-Author	smith, john harry	AU smith, john harry

RECONplus fields and their indexes are explained in Appendix A, Scheme of Indexes for the RECONplus Databases.

Now that you have entered the search tag for the field you want to search (in our example, AU-Author) and it is displayed on the Command Search Screen, you may use the Expand Index/Field List option to enter the value for that field by pressing <CTRL-L>. The Jump in Index panel, which is where you enter some or all of the author name you want, will be displayed.

The screenshot shows a terminal window titled "Command Search". Inside, there is a section labeled "Enter Command" with the text "AU" entered. Below this is a "Jump In Index" panel with the prompt "Enter a Stem>" and a cursor. At the bottom, a "Keys" section lists the following controls: ENTER (Execute Search), CTRL-L (Expand Index/Field List), CTRL-E (Explain/Help), CTRL-P (Previous Screen), CTRL-F (First Menu), and CTRL-X (Show Status).

Place a value, such as Chamis, in the Jump in Index panel and press <ENTER>.

This screenshot is identical to the previous one, but the "Jump In Index" panel now displays the text "chamis" after the "Enter a Stem>" prompt, with the cursor positioned at the end of the word.

When you have entered the field you want to search and used the Jump in Index panel to enter some or all of the field value (in this instance, Chamis), the appropriate Index panel will be displayed. Note that the author name you entered at the Jump in Index panel, Chamis, is shaded on the Index panel and appears in the middle of the list. The number in parentheses indicates the number of records in the database containing the author name.

<b>Index for: AU</b>	
CHAMBERS, RANDALL M. (	2)
CHAMBERS, ROBERT S. (	1)
CHAMBERS, T. L. (	1)
CHAMBERS, W. H. (	1)
CHAMBERT, G. (	1)
CHAMBLEE, C. (	1)
CHAMEEVA, N. A. (	1)
<b>CHAMIS, C. C. (</b>	<b>23)</b>
CHAMIS, CHRISTOS C. (	9)
CHAMP, PASCAL (	1)
CHAMPAGNE, E. B. (	1)
CHAMPAGNE, F. H. (	1)
CHAMPAGNE, L. (	1)
CHAMPAGNE, L. F. (	1)
CHAMPAGNE, VICTOR K., JR. (	1)
<b>CTRL-G Get/Drop CTRL-T Jump</b>	
<b>Selected Terms</b>	

You may use the menu at the bottom of the Index panel to Get/Drop a term and to Jump to other terms. Press <CTRL-G> once to get a value and twice to drop, or delete, that value. When you “get” the value, it will be displayed in the Selected Terms panel; when you “drop” the value, it will be deleted from the Selected Terms panel.

<b>Index for: AU</b>	
CHAMBERS, RANDALL M. <	2>
CHAMBERS, ROBERT S. <	1>
CHAMBERS, T. L. <	1>
CHAMBERS, W. H. <	1>
CHAMBERT, G. <	1>
CHAMBLEE, C. <	1>
CHAMEEVA, N. A. <	1>
CHAMIS, C. C. <	23>
CHAMIS, CHRISTOS C. <	9>
CHAMP, PASCAL <	1>
CHAMPAGNE, E. B. <	1>
CHAMPAGNE, F. H. <	1>
CHAMPAGNE, L. <	1>
CHAMPAGNE, L. F. <	1>
CHAMPAGNE, VICTOR K., JR. <	1>
<b>CTRL-G Get/Drop    CTRL-T Jump</b>	
<b>Selected Terms</b>	
CHAMIS, C. C.	



Now that “CHAMIS, C. C.” is in the Selected Terms panel, to continue with the example, you may use Jump to add the author name “SARAVANOS” to your command. Press <CTRL-T>, type “Saravanos,” and press <ENTER>.

The screenshot displays the RECONplus CBI interface. At the top, the 'Index for: AU' panel lists authors with their counts in parentheses. 'CHAMIS, C. C.' is highlighted with a black bar. Below this, a 'Jump In Index' dialog box is open, showing 'Enter a Stem> saravanos'. The 'Selected Terms' panel at the bottom contains 'CHAMIS, C. C.'. Navigation instructions 'CTRL-G Get/Drop' and 'CTRL-T Jump' are visible between the panels.

Index for: AU	
CHAMBERS, RANDALL M.	( 2 )
CHAMBERS, ROBERT S.	( 1 )
CHAMBERS, T. L.	( 1 )
CHAMBERS, W. H.	( 1 )
CHAMBERT, G.	( 1 )
CHAMBLEE, C.	( 1 )
CHAMEEVA, N. A.	( 1 )
CHAMIS, C. C.	( 23 )

**Jump In Index**  
Enter a Stem> saravanos

CTRL-G Get/Drop    CTRL-T Jump

Selected Terms
CHAMIS, C. C.

Again, note that the term you selected at the Jump in Index panel is shaded on the Index panel and appears in the middle of the set.

**Index for: AU**

SARAGA, W. <	1 >
SARAGAPANI, S. <	1 >
SARANGAPANI, S. <	6 >
SARANGI, S. K. <	1 >
SARANIERO, MICHAEL <	1 >
SARASAMMA, U. R. <	1 >
SARAVANAMUTTOO, H. I. H. <	2 >
<b>SARAVANOS, D. A. &lt;</b>	<b>5 &gt;</b>
SARAVIA, EDUARDO <	1 >
SARAZIN, C. L. <	1 >
SARD, E. <	1 >
SARD, E. W. <	2 >
SARDEI, F. <	1 >
SAREN, U. E. <	2 >
SARFARAZ, M. A. <	1 >

**CTRL-G Get/Drop    CTRL-T Jump**

**Selected Terms**

CHAMIS, C. C.

When the value you want is highlighted on the Index panel, press <CTRL-G> to display it on the Selected Terms panel.

**Index for: AU**

SARAGA, W. <	1 >
SARAGAPANI, S. <	1 >
SARANGAPANI, S. <	6 >
SARANGI, S. K. <	1 >
SARANIERO, MICHAEL <	1 >
SARASAMMA, U. R. <	1 >
SARAVANAMUTTOO, H. I. H. <	2 >
<b>SARAVANOS, D. A. &lt;</b>	<b>5 &gt;</b>
SARAVIA, EDUARDO <	1 >
SARAZIN, C. L. <	1 >
SARD, E. <	1 >
SARD, E. W. <	2 >
SARDEI, F. <	1 >
SAREN, U. E. <	2 >
SARFARAZ, M. A. <	1 >

**CTRL-G Get/Drop    CTRL-T Jump**

**Selected Terms**

CHAMIS, C. C.; SARAVANOS, D. A.

When all the values you want to use are displayed on the Selected Terms Panel, press **<ENTER>**.

Note that the use of Expand Index/Field List **<CTRL-L>** and the Jump **<CTRL-T>** options of the Command Search screen, both of which access the Jump in Index panel, may yield results that will surround the selected value in single quotes when it is added to your command. These quotes are not required in the search statement; simply ignore them.

Also note that when you select multiple values using the “Get” function, RECONplus inserts an implied “OR” (;) as the default Within-Field operator. (Changing the default Boolean operator is addressed in the section Manipulating RECONplus Search Results.)

## Selecting NASA Thesaurus Terms

There are special indexes for controlled vocabulary terms: CTMJ (Controlled Terms - Major) and CT (Controlled Terms). The CTMJ contains only NASA Thesaurus terms assigned at the major level of importance to the document. The CT contains all terms, both major and minor assignments.

The following screens illustrate how—when either of these fields are entered on the command line or selected from the Field to Search panel, Index is selected at the Search Term Method panel, <CTRL-L> is pressed and a value is entered at the Jump In Index panel—the index is displayed in Thesaurus presentation with broader, narrower, and related terms and scope notes.

The screenshot shows a terminal window titled "Command Search". At the top, there is a prompt "Enter Command" followed by a horizontal line. Below this, a menu titled "Field to Search" is displayed, listing several options with their descriptions. The option "CTMJ - Major Controlled Index Term" is highlighted with a black background. To the right of the menu, there are several horizontal lines for input. At the bottom of the window, a "Keys" section lists various keyboard shortcuts and their functions.

Field to Search		
AN	-	Accession Number
AU	-	Author (using variations)
AU	-	Author
BI	-	Basic Index
CD	-	Contract Date
CL	-	Security Classification
CN	-	Contract/Grant Number
CO	-	Country/International Org.
CT	-	Controlled Index Term
<b>CTMJ</b>	-	<b>Major Controlled Index Term</b>

Keys		
<b>ENTER</b>	Execute Search	<b>CTRL-P</b> Previous Screen
<b>CTRL-L</b>	Expand Index/Field List	<b>CTRL-F</b> First Menu
<b>CTRL-E</b>	Explain/Help	<b>CTRL-X</b> Show Status
		<b>CTRL-O</b> Specify Sort

**Command Search**

Enter Command

CTMJ

Jump In Index

Enter a Stem> fiber

**Keys**

<b>ENTER</b>	Execute Search	<b>CTRL-P</b>	Previous Screen	<b>CTRL-F</b>	First Menu
<b>CTRL-L</b>	Expand Index/Field List	<b>CTRL-X</b>	Show Status	<b>CTRL-O</b>	Specify Sort
<b>CTRL-E</b>	Explain/Help				

#Recs - Thesaurus Terms	
0	FIBER BRIDGING
1	USE CRACK BRIDGING
150	FIBER COMPOSITES
549	BT COMPOSITE MATERIALS
0	NT ARAMID FIBER COMPOSITES
1	BRAIDED COMPOSITES
36	CARBON FIBER REINFORCED PLASTICS
1	CARBON-PHENOLIC COMPOSITES
18	GLASS FIBER REINFORCED PLASTICS
0	MOVEN COMPOSITES
1	RT ALUMINUM BORON COMPOSITES
3	ALUMINUM GRAPHITE COMPOSITES
0	ARAMID FIBERS
2	BORON FIBERS
2	BORON REINFORCED MATERIALS

CTRL-G Get/Drop    CTRL-T Jump

Selected Terms

The number of records (# Recs) within the database that your access level allows you to view is displayed to the left of each terms. Thesaurus terms that do not occur in the database or that your access level does not allow you to view and terms that are non-preferred, such as Fiber Bridging, have zero postings. Use, scope notes (SN), Broader Than (BT), Narrower Than (NT), and Related to (RT) indicators are also displayed to the left of the terms. Highlighting the SN area and pressing **<ENTER>** displays the full text of the scope note and definition.

Terms may be selected from the Thesaurus Terms panel by highlighting and pressing **<CTRL-G>**. The term will then be displayed in the Selected Terms panel. All terms in the Selected Terms panel are automatically connected with an OR (;) operator. Use **<CTRL-T>** to jump to a different section of the Thesaurus or use the Up and Down arrow keys to move within the screen. After several screens, the phrase MORE TERMS will be displayed as the last entry. Press **<ENTER>** to retrieve more terms.

When you are finished selecting terms, press **<ENTER>** to add the clause to your search.

## Searching for Null Field Values

In addition to searching for a specific value in a field, you can search for documents that do not contain a particular field (the field is blank). The syntax for a null field search is:

**<Index Name Search Tag>space<null>**

“Null” indicates that you want those records in which the field contained in the index is blank.

The null function also can be used when you require documents that have specific content. In this case, the field that is required is connected by an operator or a Combine operation to another search clause using the Not operator. For example, if you are looking for the names of researchers who have authored documents in the field of wind tunnel statistics, you could use the following strategy:

```
ctmj wind tunnel statistics not au null  
or  
ctmj wind tunnel statistics  
au null  
#1 not #2
```

## Executing the Search

When you have selected all the values you want and pressed <ENTER>, your command will be displayed on the Command Search screen. Press <ENTER> to execute your command.

The screenshot shows a window titled "Command Search". Inside, there is a text input area with the label "Enter Command". The text "AU CHAMIS, C. C.; SARAVALLOS, D. A." is entered in the field. Below the input area, there is a list of keys and their functions:

Keys			
<b>ENTER</b>	Execute Search	<b>CTRL-P</b>	Previous Screen
<b>CTRL-F</b>	First Menu	<b>CTRL-L</b>	Expand Index/Field List
<b>CTRL-X</b>	Show Status	<b>CTRL-E</b>	Explain/Help



RECONplus will respond with a display of your search statement and a Search Result panel that shows the number of records found and the assigned set number.

Keys		
<b>ENTER</b>	Execute Search	<b>CTRL-P</b> Previous Screen
<b>CTRL-L</b>	Expand Index/Field List	<b>CTRL-F</b> First Menu
<b>CTRL-E</b>	Explain/Help	<b>CTRL-X</b> Show Status

When the Search Result panel is displayed, press **<ENTER>** to continue.

If no results are returned from the search, RECONplus redisplay the Command Search screen with your original search statements.

If the search yields results, a search set panel is displayed showing the number RECONplus has assigned to your search set, the number of records resulting from the search, and three options for manipulating your search set: displaying results, performing a new search, or revising the existing search. A fourth option, Previous Search, is available when previous sets have been created. These options may be selected by typing the highlighted hot key of the desired option and pressing **<ENTER>**.

Selecting Display Results from the Search Set panel yields the same display formats in all three search modes—Quick Search, Full Search, and Command Search—and therefore is discussed in the section Display of Search Results under Manipulating RECONplus Search Results. The Revise Search, New Search, and the Previous Search options, as well as re-executing a search in a different database and combining search results, are discussed in the following sections.

## Revising a Search

Selecting Revise-Search from the Search Set panel activates the RECONplus Command Search editing function. To do so, highlight the Revise-Search option on the Search Set panel, and press <ENTER>.

The screenshot displays the 'Command Search' window. At the top, the title 'Command Search' is centered. Below it, a text entry area is labeled 'Enter Command' and contains the text 'AU CHAMIS, C. C.;SARAVANOS, D. A.'. Below the entry area are several horizontal lines for additional input. At the bottom of the window, a panel titled 'Search Set 2: 26 Records' contains four options: 'DISPLAY-RESULTS', 'NEW-SEARCH', 'REVISE-SEARCH' (which is highlighted with a black background), and 'PREVIOUS-SEARCH'. Below these options, a line of text reads 'REVISE the current SEARCH, keeping previous entries.'

When you select Revise-Search at the Search Set menu, the Command Search screen will be redisplayed and the cursor will appear at the end of the search statement.

To insert characters at a particular point in the command, use the numeric keys (with NumLoc on) or the arrow keys to position the cursor and enter the desired characters. Use the backspace key or the delete key on the numeric keypad to delete characters. The character deleted is the character preceding the cursor position.

For example, to change the AU CHAMIS, C.C. ; SARAVANOS, D.A. command to AU CHAMIS, C.C. AND PD > 19801231.

1. Move the cursor to the semicolon (the “OR” operator).
2. Press the delete key on the numeric keypad to delete the semicolon.
3. Type the word AND and a space.
4. Delete SARAVANOS using the delete key on the numeric keypad.
5. Add the Publication Date field and its value, greater than 1980, by typing PD > 19801231.

The screenshot shows a terminal window titled "Command Search". Inside, there is a text input area with the prompt "Enter Command". The current command being edited is "au CHAMIS, C. C. and pd >19801231". The cursor is at the end of the command. Below the input area, there is a section titled "Keys" with the following shortcuts listed:

<b>ENTER</b>	Execute Search	<b>CTRL-P</b>	Previous Screen	<b>CTRL-F</b>	First Menu
<b>CTRL-L</b>	Expand Index/Field List	<b>CTRL-X</b>	Show Status		
<b>CTRL-E</b>	Explain/Help				

The revisions are displayed on the Command Search screen as you type them. When they are completed, press <ENTER> to execute the revised search.

You may also use <CTRL-L>, the Expand Index/Field List option, to revise a search statement or to perform a combination of typing and expanding. To do so, first select Revise-Search from the Search Set panel.

Command Search

Enter Command

au CHAMIS, C. C. and pd < 19801231

Search Set 4: 17 Records

DISPLAY-RESULTS

NEW-SEARCH

REVISE-SEARCH

PREVIOUS-SEARCH

REVISE the current SEARCH, keeping previous entries.

To add the index terms “fiber” or “composites” to the sample search, first type a space, the “AND” operator, and “BI,” for the Basic Index.

The screenshot shows a window titled "Command Search" with a small maximize button in the top right corner. Inside the window, there is a text area labeled "Enter Command" containing the text "au CHAMIS, C. C. and pd >19801231 and bi". Below the text area are several empty horizontal lines for additional input. At the bottom of the window, there is a "Keys" section with the following controls: ENTER (Execute Search), CTRL-L (Expand Index/Field List), CTRL-E (Explain/Help), CTRL-P (Previous Screen), CTRL-F (First Menu), and CTRL-X (Show Status).

Then, leaving the cursor positioned after “BI,” press <CTRL-L> to open the Jump in Index panel, type “fiber,” and press <ENTER>.

This screenshot shows the same "Command Search" window, but with the "Jump In Index" panel open. The panel is located below the main text area and contains the text "Enter a Stem> fiber". The main text area still shows the original search command. The "Keys" section at the bottom remains the same as in the previous screenshot.

When you have typed “fiber” in the Jump in Index panel and pressed <ENTER>, the Index and Selected Terms panels will be displayed. Because the index name search tag BI has been entered, the system displays the Basic Index.

Index for: bi

FHST	( 1)
FHSTS	( 1)
FI	( 1)
FIA	( 2)
FIACCO	( 1)
FIAT	( 1)
FIB	( 1)
<b>FIBER</b>	<b>( 1138)</b>
FIBER"	( 1)
FIBER'S	( 2)
FIBERBOARD	( 1)
FIBERGLASS	( 89)
FIBERITE	( 2)
FIBERIZABLE	( 1)
FIBERIZED	( 1)

CTRL-G Get/Drop    CTRL-T Jump

Selected Terms

FIBER

Press <CTRL-G> with the cursor at the highlighted value to mark “fiber” for selection. Then press <CTRL-T> to access the Jump in Index Panel, type “composites,” and press <ENTER>.

Index for: BI

FHST	( 1)
FHSTS	( 1)
FI	( 1)
FIA	( 2)
FIACCO	( 1)
FIAT	( 1)
FIB	( 1)
<b>FIBER</b>	<b>( 1138)</b>

FIB Jump in Index

FIB Enter a Stem> composites

FIB

FIBERGLASS	( 89)
FIBERITE	( 2)
FIBERIZABLE	( 1)
FIBERIZED	( 1)

CTRL-G Get/Drop    CTRL-T Jump

Selected Terms

FIBER

The “composites” search term will be displayed in the Selected Terms panel.

**Index for: BI**

- COMPOSED ( 427)
- COMPOSER ( 5)
- COMPOSERS ( 3)
- COMPOSING ( 14)
- COMPOSITE ( 1870)
- COMPOSITE'S ( 2)
- COMPOSITED ( 5)
- COMPOSITES ( 1116)**
- COMPOSITIES ( 3)
- COMPOSITING ( 4)
- COMPOSITION ( 2296)
- COMPOSITIONAL ( 68)
- COMPOSITIONALITY ( 1)
- COMPOSITIONALLY ( 6)
- COMPOSITIONED ( 1)

**CTRL-G Get/Drop    CTRL-T Jump**

**Selected Terms**

FIBER; COMPOSITES

When you have selected all desired search terms, press **<ENTER>**. The revised command will be displayed, ready to execute.

**Command Search**

Enter Command

au CHAMIS, C. C. and pd >19801231 and bi FIBER;COMPOSITE

Keys

<b>ENTER</b> Execute Search	<b>CTRL-P</b> Previous Screen	<b>CTRL-F</b> First Menu
<b>CTRL-L</b> Expand Index/Field List	<b>CTRL-X</b> Show Status	
<b>CTRL-E</b> Explain/Help		

## Starting a New Search

Selecting New-Search from the Search Set panel clears the current search statement and permits entry of a new command. To do so, highlight the New-Search option on the Search Set panel and press <ENTER>. The Command Search screen will be cleared and redisplayed, ready for entry of a new command. Note that the sets and set history from the previous searches are not deleted by beginning a new search.

The screenshot shows a window titled "Command Search". Inside, there is a text input area with the prompt "Enter Command" and the text "au CHAMIS, C. C. and pd >19801231 and bi FIBER;COMPOSITE". Below the input area is a list of keys and their functions:

Keys		
ENTER	Execute Search	CTRL-P Previous Screen
CTRL-L	Expand Index/Field List	CTRL-F First Menu
CTRL-E	Explain/Help	CTRL-X Show Status



## Recalling a Previous Search

Previous searches executed during the current session can be recalled for re-execution or revision. To do so from the Command Search mode, highlight the Previous-Search option on the Search Set panel.

**NOTE:** To recall a search executed under the Quick Search or Full Search mode, return to the Main Options Menu, select Command Search, enter a “dummy” search statement like “au ti,” and press <ENTER>. Then select the Previous-Search option on the Search Set panel.

Previous sets are displayed with the most recently created set at the top. Sets from all three modes—Quick, Full, and Command—are available for recall. Browse the list of sets using the arrow keys. Highlight the desired set and press <ENTER>.

The search statement for the selected set is displayed on the Command Search screen. The search may be re-executed or revised. See the previous section *Revising an Existing Search*.

## Re-executing a Search in a Different Database

A search previously executed in one database can be re-executed in a different database. To do so, select a new database from the Select Database option on the Main Menu. The new database is now the active database in which all subsequent searches will be performed until you change the selection or exit and re-enter RECONplus.

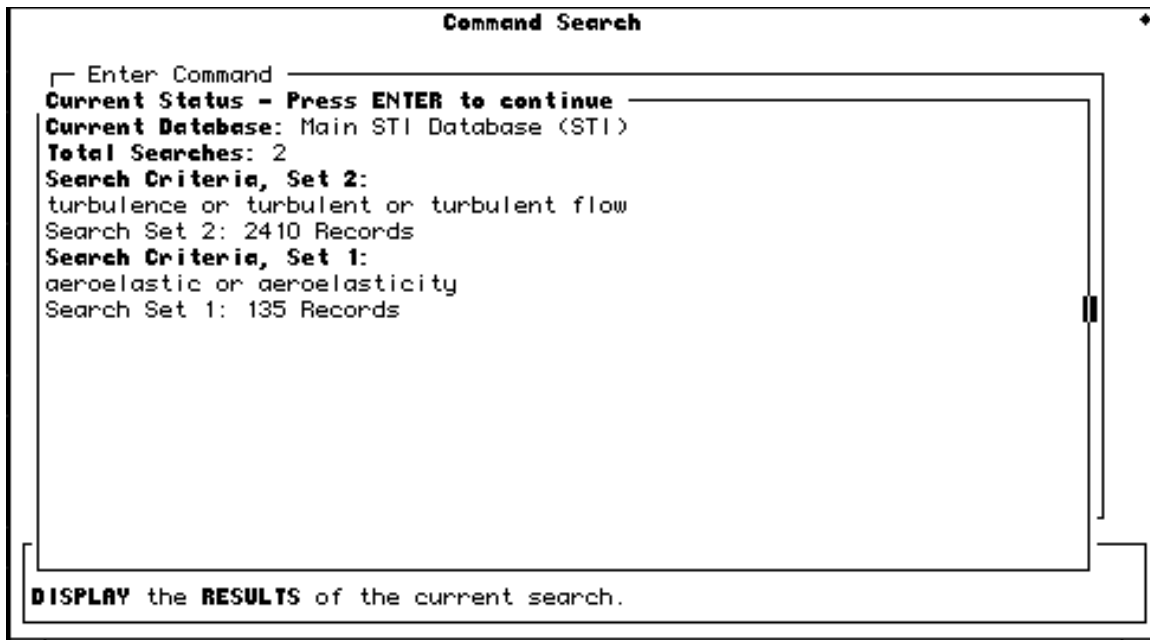
If the search you want to re-execute is a stored search, select Replay Stored Search from the Review/other option on the Main Menu. (See the section *Replaying a Stored Search*.) When the search is replayed it is executed in the currently active database and a new result set is created.

If the search you want to re-execute was executed earlier in the current search session and has not been saved, follow the instructions under *Recalling a Previous Search* above. When the search is recalled, it is executed against the currently active database and a new result set is created.

## Combining Search Sets

While many complex searches can be entered as a single statement in RPCL, you may prefer to build the statement in segments.

As each statement is executed, the system creates a set of the results. A set number is assigned to each set. The last 10 set numbers can be viewed by pressing <CTRL-X> at any time.



In addition, all sets from the session can be viewed by returning to the RECONplus Main Menu, selecting Review/Other, and then selecting History.

Sets can be combined on the Command Search screen using Boolean operators. The basic syntax is:

<#N>space<Operator>space<#N>

The pound sign symbol is entered by pressing <SHIFT-3> on a standard keyboard. “N” is the set number, that is, the integer RECONplus has assigned to the set containing your search results.

For example, if a search on “AEROELASTIC or AEROELASTICITY” has yielded results contained in Set #1 and a search on “TURBULENCE or TURBULENT or TURBULENT

FLOW” has yielded results contained in Set #2, you may combine the two sets in a new search statement.

The screenshot shows a window titled "Command Search". Inside, there is a text input area with the command "#1 AND #2" entered. Below the input area, a message box displays "Search Result - Press Enter to Continue" and "Search Set 3: 13 Records". At the bottom of the window, a "Keys" section lists several keyboard shortcuts: ENTER for Execute Search, CTRL-P for Previous Screen, CTRL-F for First Menu, CTRL-L for Expand Index/Field List, CTRL-X for Show Status, CTRL-E for Explain/Help, and CTRL-O for Specify Sort.

Keys		
<b>ENTER</b>	Execute Search	<b>CTRL-P</b> Previous Screen
<b>CTRL-L</b>	Expand Index/Field List	<b>CTRL-F</b> First Menu
<b>CTRL-E</b>	Explain/Help	<b>CTRL-X</b> Show Status
		<b>CTRL-O</b> Specify Sort

This Combine statement will find all documents that are in Set #1 and Set #2, and create a set that is assigned the next highest set number (using our example, Set 3).

Multiple operators can be used to combine sets. The order of operation is NOT, AND, OR. Parentheses can also be used in Combine statements.

## ▲ Manipulating RECONplus Search Results

### △ Display of Search Results

The same display capabilities are available from (1) the Search Set panel that results from a Quick Search or Command Search, (2) from the Next Action panel that results from a Full Search, or (3) from the Display Results option of the Review/Other menu. These include the Title List screen shown below, which allows you to select one or more records for display, and provides access to the full, brief, and user selectable display formats. Also included on the bottom of the Title List screen in each search mode are navigation and output options.

To see the same results formatted in a full or brief display, first mark the records you want to see using <CTRL-G>. Then select View from the Title List screen's navigation/output options.

CTRL-G Select/Deselect Record			
Item	DocNum	Author	Title
1	19700000610	Chamis, C. C.	Bonding of strain gages to fiber
2	19710000370	Chamis, C. C.	Analysis of multilayered fiber
3	19720000502	Chamis, C. C.	Equations to assess the impact
4	19720027073	Chamis, C. C.	Buckling of boron/aluminum and
5	19720038016	Chamis, C. C.	Design properties of randomly
6	19720041806	Chamis, C. C.	Impact resistance of unidirectional
7	19720042367	Chamis, C. C.	Computerized multilevel analysis for
8	19720044333	Chamis, C. C.	Automated testing data reduction
9	19720044334	Sullivan, T. L.	Some important aspects in testing
10	19720048462	Chamis, C. C.	Design considerations for fiber
11	19730000007	Chamis, C. C.	Fiber composite materials: A survey
12	19730000039	Chamis, C. C.	An inexpensive and effective method
13	19730000063	Chamis, C. C.	Residual stress effects on the impact
14	19730000247	Chamis, C. C.	Computer program to compute buckling
15	19740000005	Chamis, C. C.	Criteria for selecting resin matrices
16	19740000247	Chamis, C. C.	Advanced fiber-composite hybrids--A
CTRL-E Explain/Help CTRL-F First Menu CTRL-P Previous Screen ENTER Pick			
VIEW	NXT-REC	DN-PAGE	FIRST-REC OUTPUT
LABEL	PRV-REC	UP-PAGE	REQUEST-DOC SUBSET
VIEW the contents of the current record.			

Search Results, Title List

When you choose View, the Select Display Format panel will be displayed with the options Full Format, Brief Format, and User Selectable Fields. (Note below how the record we'll be using as an example, record 21, is now marked with an X to signify its selection as a record to be viewed.)

CTRL-G Select/Deselect Record			
Item	DocNum	Author	Title
17	19760000355	Chamis, C. C.	Composite laminate warpage
18	19900000865	Riello, Robert A.	Composite Blade Structural Analyzer
19	19900000869	Saravanos,	ping for fiber
20	19900002492	Saravanos,	thodology for
X21	19900006692	Chamis, C.	mulation of
22	19900008501	Caruso, J.	gh temperature metal
23	19900010822	Thanedar,	te tailoring with
24	19900010835	Chamis, Christos	Fundamental aspects of and failure
25	19900011116	Saravanos, D. A.	Computational simulation of damping in
26	19900011815	Mital, Subodh K.	Fiber pushout test: A
27	19900011821	Chamis, Christos	Structural tailoring of select fiber
28	19900012505	Chamis, Christos	Computational simulation of structural
29	19900012508	Chamis, Christos	METCAN verification status
30	19900015067	Mital, Subodh K.	Metal matrix composites microfracture:
31	19900015068	Murthy, P. L. N.	Simplified design procedures for fiber
32	19900019300	Chamis, C. C.	Probabilistic structural analysis

CTRL-E Explain/Help	CTRL-F First Menu	CTRL-P Previous Screen	ENTER Pick
VIEW	NXT-REC	DN-PAGE	FIRST-REC
LABEL	PRV-REC	UP-PAGE	REQUEST-DOC
			OUTPUT
			SUBSET

Select the format you want by pressing the Up and Down arrow keys or using one of the highlighted hot keys and pressing <ENTER>. The resulting displays are depicted on the following pages.

## Full and Brief Display Formats

In each of these displays, the title of the selected records is displayed on line 1, along with a counter (doc 21 of 32) that shows you which record of the total number of records in your search set is being displayed. Your original search stem (Chamis) is highlighted. (Note that highlighting is not currently available on some fields.) The line between the displayed record and the navigation options also includes information that shows where you are in the display. In the Search Results, Full Display example below, "Line 1:18 of 36" denotes that lines 1 through 18 of the 36 total lines in the record are currently displayed.

```
Probabilistic simulation of uncertainties in composite unia-----Doc 21 of 32-
19900006692 N (90N16008) IM
Unclassified (Unrestricted - Publicly Available)

TI: Probabilistic simulation of uncertainties in composite uniaxial
strengths
AU: Chamis, C. C. (NASA Lewis Research Center, Cleveland)/Chamis, C. C.
(NASA Lewis Research Center, Cleveland)
RN: NASA-TM-102483 PJN: RTOP 505-63-11
DT: Conference Paper
LA: English
OS: NASA Lewis Research Center (Cleveland, OH, United States)
FS: NASA (United States) [NASA]
SO: Annual Conference of the Society of Plastics Industry Reinforced
Plastics
PB: United States
PD: Jan 01, 1990
MN: Annual Conference of the Society of Plastics Industry Reinforced
Plastics, Washington, DC, 12-16 Feb. 1990
-----Line 1: 18 of 36-----
CTRL-E Explain/Help CTRL-F First Menu CTRL-P Previous Screen ENTER Pick
NEXT-REC DN-PAGE OUTPUT FORMAT
PRV-REC UP-PAGE REQUEST-DOC
Move to the NEXT RECORD within the current search set.
```

Search Results, Full Display

```

Probabilistic simulation of uncertainties in composite unia-----Doc 21 of 32-
J19900006692 N (90N16008) IM
Unclassified (Unrestricted - Publicly Available)

TI:    Probabilistic simulation of uncertainties in composite uniaxial
         strengths
AU:    Chemis, C. C. (NASA Lewis Research Center, Cleveland)/Chemis, C. C.
         (NASA Lewis Research Center, Cleveland)
RN:    NASA-TM-102483 PJN: RTOP 505-63-11
DT:    Conference Paper
SO:    Annual Conference of the Society of Plastics Industry Reinforced
         Plastics
PD:    Jan 01, 1990
AV:    Hardcopy - CASI A03 (16p)/Microfiche - CASI A01 (16p)
SC:    24 (COMPOSITE MATERIALS)

-----Line 1: 14 of 14-
CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
NXT-REC  DN-PAGE    OUTPUT      FORMAT
PRV-REC  UP-PAGE    REQUEST-DOC
Move to the NEXT RECORD within the current search set.

```

Search Results, Brief Display

## User Selectable Display Format

In addition to supplying Full and Brief formats, RECONplus allows you to create your own display format. To do so, highlight the User Selectable Fields option from the Select Display Format panel and press <**ENTER**>.

CTRL-G Select/Deselect Record			
Item	DocNum	Author	Title
17	19760000355	Chamis, C. C.	Composite laminate warpage
18	19900000865	Riello, Robert A.	Composite Blade Structural Analyzer
19	19900000869	Saravanas,	ping for fiber
20	19900002492	Saravanas,	ethodology for
21	19900006692	Chamis, C.	mulation of
22	19900008501	Caruso, J.	gh temperature metal
23	19900010822	Thanedar,	te tailoring with
24	19900010835	Chamis, Christos	Fundamental aspects of and failure
25	19900011116	Saravanas, D. A.	Computational simulation of damping in
26	19900011815	Mital, Subodh K.	Fiber pushout test: A
27	19900011821	Chamis, Christos	Structural tailoring of select fiber
28	19900012505	Chamis, Christos	Computational simulation of structural
29	19900012508	Chamis, Christos	METCAN verification status
30	19900015067	Mital, Subodh K.	Metal matrix composites microfracture:
31	19900015068	Murthy, P. L. N.	Simplified design procedures for fiber
32	19900019300	Chamis, C. C.	Probabilistic structural analysis

CTRL-E Explain/Help	CTRL-F First	Menu	CTRL-P Previous	Screen	ENTER Pick
<b>VIEW</b>	NXT-REC	DN-PAGE	FIRST-REC	OUTPUT	
<b>LABEL</b>	PRV-REC	UP-PAGE	REQUEST-DOC	SUBSET	



When you choose the User Selectable Display function, the available display components are listed in the Select Fields panel. Select the components you want to use by highlighting them in the Select Fields panel and pressing <CTRL-G>. Up to 15 components can be selected for display. (The Header field provides a shortcut, allowing you to add all of the information contained in the first two lines of the standard RECONplus-supplied display formats.)

CTRL-G Select/Deselect Record			
Item	DocNum	Author	Title
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

Selected Fields	
S	
y	
a	
i	
a	
e	
i	
a	
i	
a	
u	
a	
u	
r	

CTRL-G Get/Drop	CTRL-E Explain/Help	CTRL-F First Menu	CTRL-P Previous Screen	ENTER Pick
VIEW	NXT-REC	DN-PAGE	FIRST-REC	OUTPUT
LABEL	PRV-REC	UP-PAGE	REQUEST-DOC	SUBSET

The fields contained in each display component are listed in Appendix G. When a component is selected, the fields within the component are also selected and displayed in the order in which they appear within the component.

When a record is displayed in the customized format, the components will be displayed in the order in which you chose them.

The Save Current Selections option at the top of the Select Fields panel can be used to save the current, user-defined display format. When chosen, this option will prompt you for a file name.

**NOTE:** As with other options in RECONplus that are used to save files, RECONplus will supply the proper file extension for the file based on its type. It is neither necessary nor desirable for the user to supply a file extension with the file name.

The Load Saved Selections option at the top of the Select Fields panel is used to load display formats previously stored with Save Current Selections. When you choose this option you will be prompted for the name of the file you want to load. If you do not remember the name of the file, enter a question mark at the prompt. A list of saved format files will be displayed; highlight the one you want to use and press <ENTER>. The selected format serves as the default for the display of that set's results. After a display format has been recalled, use View to redisplay the records. The records will be displayed and output in the recalled format until another display selection is made.

## △ Labeling

The label option allows you to name the search results prior to printing or downloading. A name up to 65 characters in length may be entered. This name is saved only for the duration of this set display.

## △ Requesting, or Ordering Documents for Purchase

The RECONplus Request-Doc function allows authorized users to order document(s) for purchase directly from NASA CASI, in any format—hardcopy, diskette, videotape, or microfiche—listed in the availability (AV) field of the desired document(s). Up to 50 documents can be selected at a time; up to 100 copies of each document may be ordered at a time. Journal articles are available as hard copy only. To establish RECONplus ordering privileges, contact the NASA Access Help Desk at (301) 621-0390.

Your choice of Request-Doc options include the following:

- **Current Document:** Order only the currently selected document
- **Marked Documents Only:** Order only marked documents
- **All Documents:** Order all documents in the retrieved set

To request the current document or all documents, select Request-Doc from the navigation options at the bottom of the Title List screen or the Record Display screen (full, brief, or user selected). To request marked documents, first highlight each document you want and press <CTRL-G> to select it. An “X” will mark the selected documents. Then select Request-Doc from the navigation options at the bottom of the screen and proceed as described on the following pages.

CTRL-G Select/Deselect Record			
Item	DocNum	Author	Title
1	19940032156	Chamis, C. C.	Process/composite concurrent tailoring
2	19930034993	Morel, M.	Combined micromechanical and
X3	19930017516	Saravanes, D. A.	Dynamic characteristics of specialty
X4	19930000155	Saravanes, D. A.	Theory Of Damping In Composite
X5	19920045431	Saravanes, D. A.	Multiobjective shape and material
6	19920022610	Morel, M. R.	Tailored metal matrix composites for
7	19920000371	Saravanes, D. A.	Optimizing Elastodynamic Performances
8	19910058609	Saravanes, D. A.	Concurrent tailoring of fabrication
9	19910051660	Saravanes, D. A.	Computational simulation of damping in
10	19910047219	Saravanes, D. A.	Concurrent material-fabrication
11	19910034425	Saravanes, D. A.	An integrated methodology for
12	19910028272	Saravanes, D. A.	Mechanics of damping for fiber
13	19910020968	Saravanes, D. A.	The effects of interply damping layers
14	19910020967	Morel, M.	Interphase layer optimization for
15	19900043195	Saravanes, D. A.	Tailoring of composite links for
16	19900042207	Saravanes, D. A.	Multi-objective shape and material
CTRL-E Explain/Help CTRL-F First Menu CTRL-P Previous Screen ENTER Pick			
VIEW	NXT-REC	DN-PAGE	FIRST-REC OUTPUT
LABEL	PRV-REC	UP-PAGE	REQUEST-DOC SUBSET
Request one or more documents from this set.			

When you have selected Request-Doc from the navigation options at the bottom of a Title List screen, the Request? panel is displayed, allowing you to choose the document(s) you want to purchase: the current document, only those you have marked, or all documents.

CTRL-G Select/Deselect Record				
Item	DocNum	Author	Title	
			Request? <input type="checkbox"/>	
1	199400321		Current Document	rent tailoring
2	199300349		Marked Documents Only	and
X3	199300175		All Documents	of specialty
X4	199300001			posite
X5	19920045431	Saravanes, D. A.	Multiobjective shape and material	
6	19920022610	Morel, M. R.	Tailored metal matrix composites for	
7	19920000371	Saravanes, D. A.	Optimizing Elastodynamic Performances	
8	19910058609	Saravanes, D. A.	Concurrent tailoring of fabrication	
9	19910051660	Saravanes, D. A.	Computational simulation of damping in	
10	19910047219	Saravanes, D. A.	Concurrent material-fabrication	
11	19910034425	Saravanes, D. A.	An integrated methodology for	
12	19910028272	Saravanes, D. A.	Mechanics of damping for fiber	
13	19910020968	Saravanes, D. A.	The effects of interply damping layers	
14	19910020967	Morel, M.	Interphase layer optimization for	
15	19900043195	Saravanes, D. A.	Tailoring of composite links for	
16	19900042207	Saravanes, D. A.	Multi-objective shape and material	

CTRL-E Explain/Help	CTRL-F First Menu	CTRL-P Previous Screen	ENTER Pick
VIEW	NXT-REC	DN-PAGE	FIRST-REC
LABEL	PRV-REC	UP-PAGE	REQUEST-DOC
			SUBSET

Highlight the desired option by using the highlighted hot keys or the cursor keys and pressing <ENTER>. The CASI Order screen will be displayed.

CASI Order: Processing and Delivery - Mark Appropriate Boxes with an "X"			
<b>Processing</b> <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush		<b>Delivery</b> <input checked="" type="checkbox"/> Normal Shipping <input type="checkbox"/> CASI Based Express Shipping	
Attn Of: _____			
Desired Media:			
<input checked="" type="checkbox"/> Hardcopy	<input type="checkbox"/> Diskette	<input type="checkbox"/> Video-VHS	
<input checked="" type="checkbox"/> Stock or Copy		<input type="checkbox"/> Video-SVHS	
<input type="checkbox"/> Stock Only		<input type="checkbox"/> Video-Betacam SP	
<input type="checkbox"/> Microfiche		<input type="checkbox"/> Video-Hi 8	
Copies: <u>1</u>			
<b>ENTER</b> Execute request <b>CTRL-P</b> Cancel request <b>CTRL-F</b> First Menu			

As described below, the CASI Order screen permits you to specify processing and delivery, media, and number of copies options for the document(s) you have selected. Note that the defaults are Normal Processing and Normal Shipping.

- **Processing:** Place an “X” beside Normal or Rush.
- **Delivery:** Place an “X” beside Normal Shipping or CASI-Based Express Shipping. If desired, specify a name in the Attn of: field.
- **Media:** Place an “X” beside one of the media types. If more than one media type is desired, please call your order into the NASA Access Help Desk (301-621-0390). Make sure the requested media matches the available media.
- **Number of Copies:** Indicate the desired number of copies.

When you have completed your selection of the processing, delivery, media, and number of copies options, press <ENTER>. RECONplus will verify that the requested media is available for each requested document and process your order.

If all documents you order are available in the selected media, you will receive an order confirmation message. If any of documents you order are not available in the selected media, you will receive an information/error message. Only those documents that do not meet your criteria are rejected from your order. Please print the list of rejected records and resubmit.

To check the available media for a particular document, display the document and review the availability (AV) field.

```
Dynamic characteristics of specialty composite structures w-----Doc 3 of 21-
19930017516 N (93N26705) IM
Unclassified (Unrestricted - Publicly Available)

TI:   Dynamic characteristics of specialty composite structures with embedded
      damping layers
AU:   Saravanes, D. A. (Ohio Aerospace Inst.)/Chamis, C. C. (NASA Lewis
      Research Center)
RN:   NASA-TM-106165 GN: NCC3-208/4 PJN: RTOP 510-02-12)
DT:   Conference Paper
SO:   Symposium on Vibroacoustic Characterization of Materials and Structures
PD:   May 01, 1993
AV:   Hardcopy - CASI A03 (32p)/Microfiche - CASI A01 (32p)
SC:   24 (COMPOSITE MATERIALS)

Line 1: 13 of 13-
CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
NXT-REC  DN-PAGE      OUTPUT      FORMAT
PRV-REC  UP-PAGE      REQUEST-DOC
Move to the NEXT RECORD within the current search set.
```

**NOTE:** Diskettes are available only in the format in which they are received at CASI, as indicated in the record. Videotapes are available in all formats. However, formats other than VHS and Beta may have special pricing. You will be contacted prior to the completion of your order by the CASI staff.

## △ Output of Search Results

The RECONplus Output function allows you to obtain either printed or downloaded copies of documents. Your choice of output options include the following:

- **Marked Documents Only:** Outputs only marked documents
- **Current Document:** Outputs only the currently selected document
- **All Documents:** Outputs all documents in the retrieved set
- **List of Documents (Marked Items Only):** Outputs list of marked items only
- **List of Documents (All Items):** Outputs list of all items

To request output of the current document, all documents, or a list of all documents, select Output <**CTRL-O**> from the navigation options at the bottom of any Title List screen (either one that displays the list of titles or one that displays one record).

To request output of marked documents, or a list of marked documents, first highlight each document you want and press <**CTRL-G**> to select it. An “X” will mark the selected documents. Then select Output from the navigation options at the bottom of the screen and proceed as described on the following pages.

CTRL-G Select/Deselect Record			
Item	DocNum	Author	Title
17	19760000355	Chamis, C. C.	Composite laminate warpage
18	19900002492	Saravanos, D. A.	An integrated methodology for
X19	19900006692	Chamis, C. C.	Probabilistic simulation of
20	19900008501	Caruso, J. J.	Prediction of high temperature metal
21	19900010822	Thanedar, P. B.	Composite laminate tailoring with
22	19900011116	Saravanos, D. A.	Computational simulation of damping in
23	19900019300	Chamis, C. C.	Probabilistic structural analysis
CTRL-E Explain/Help   CTRL-F First Menu   CTRL-P Previous Screen   ENTER Pick			
VIEW	NXT-REC	DN-PAGE	FIRST-REC <b>OUTPUT</b>
LABEL	PRV-REC	UP-PAGE	REQUEST-DOC SUBSET
OUTPUT these results to a file for printing or downloading.			

When you have selected Output from the navigation options at the bottom of a display screen, the Output panel is displayed, allowing you to choose the document(s) you want to output: the current document, only those you have marked, all documents, a list of the documents you have marked, or a list of all the documents.

CTRL-G Select/Deselect Record			
Item	DocNum	Author	Title
17	197600003		
18	199000024		
X19	199000066		
20	199000085		
21	199000108		
22	199000111		
23	19900019300	Chamis, C. C.	Probabilistic structural analysis

Output?	
Current Document	ge
Marked Documents Only	y for
All Documents	of
List of Documents (Marked Items Only)	nature metal
List of Documents (All Items)	ring with
	of damping in

CTRL-E Explain/Help	CTRL-F First Menu	CTRL-P Previous Screen	ENTER Pick
VIEW	NXT-REC	DN-PAGE	FIRST-REC OUTPUT
LABEL	PRV-REC	UP-PAGE	REQUEST-DOC SUBSET



When you have chosen the documents to output, you will be prompted to choose the manner in which you want to output the documents.

CTRL-G Select/Deselect Record				
Item	DocNum	Author	Title	
17	197200423	Current	Attached HP LaserJet	
18	197200418	Marked D	Attached HP LaserJet (No Bold)	
X19	197200380	All Docu	Attached Epson or Compatible	
20	197200270	List of	Other Attached Printer	
21	197200005	List of	File Capture	
22	197100003		CASI Print	
23	197000006	10 Chamis		

CTRL-E Explain/Help				
VIEW	NXT-REC	DN-PAGE	FIRST-REC	OUTPUT
LABEL	PRV-REC	UP-PAGE	REQUEST-DOC	SUBSET

The choices are defined below and discussed in the following sections:

- **Attached HP LaserJet:** Print to an HP LaserJet printer attached to your computer.
- **Attached HP LaserJet (No bold):** Print to an HP LaserJet printer attached to your computer without using the codes for bold text.
- **Attached Epson/Compatible:** Print to an Epson or compatible printer attached to your computer.
- **Other Attached Printer:** Print to another type of printer available from your computer.
- **File Capture:** Download the selected documents to a local, user-named file.
- **CASI Print:** Print to the high speed printer at CASI for later delivery to you. (You must have an account at CASI to perform this option.)

Highlight the desired option by using the highlighted hot keys or the cursor keys and pressing <ENTER>.

If you are accessing the output options from the Title List screen, you will also be asked to specify the format of the output—full, brief, or user selectable fields. If you selected

Output from a document display screen, the format of the output is the same as the form of the display.

## **Local Print**

There are four options for printing to your local printer, whether it is attached to your computer directly or through a local area network (LAN).

- Attached HP LaserJet
- Attached HP LaserJet (No Bold)
- Attached Epson/Compatible
- Other Attached Printer

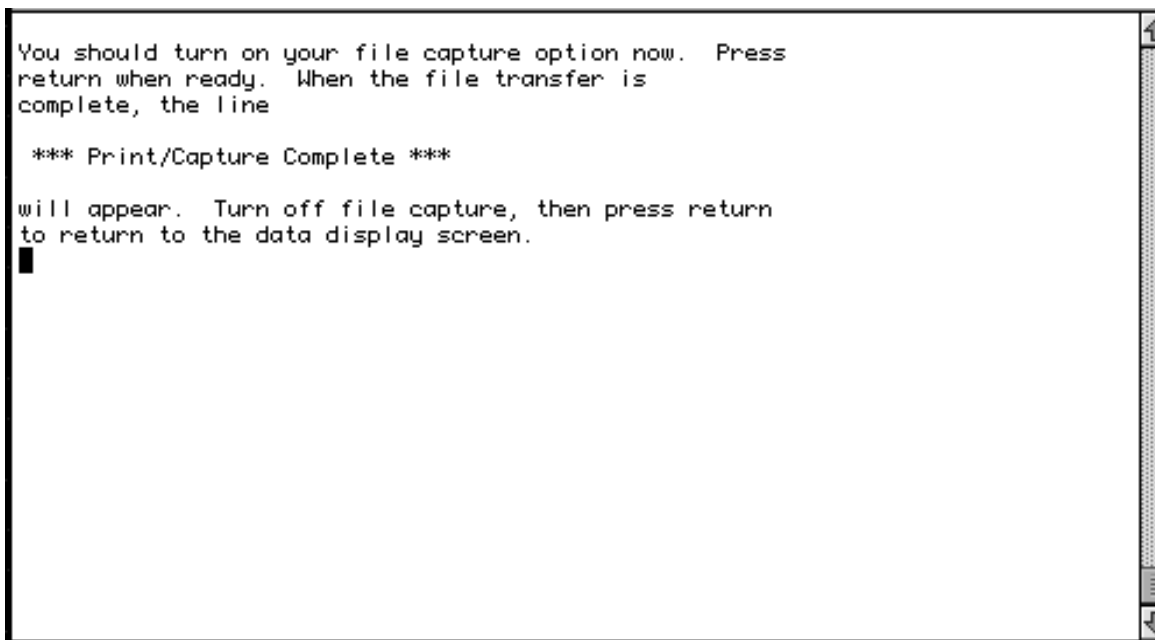
Through the first three options, RECONplus provides the appropriate printer driver codes to control the most common printers. The fourth option, Other Attached Printer, produces a printout of the citation under control of the attached printer itself.

**Note to HP LaserJet users:** Try the Attached HP LaserJet option first. If you have problems printing, try the HP LaserJet (No Bold) option. Finally, if you cannot print with either of the previous options use the Other Attached Printer option.

## File Capture

Retrieved citations can be downloaded to a local file using the File Capture function. File Capture uses the communication capabilities of your telnet software to capture print output as an ASCII file. To use this function, your telnet software must have this capability. If you are unsure, check the documentation for your telnet software or ask your technical support staff.

To capture the output as a file, first highlight the Output option and press <ENTER>. When the Output panel is displayed, select which documents you want to capture; then select File Capture from the Output panel and the format you want from the Select Display Format panel. The following screen is displayed.

A screenshot of a telnet window with a black background and white text. The text reads: "You should turn on your file capture option now. Press return when ready. When the file transfer is complete, the line \*\*\* Print/Capture Complete \*\*\* will appear. Turn off file capture, then press return to return to the data display screen." followed by a cursor. The window has a standard Mac OS-style title bar and scroll bars on the right side.

```
You should turn on your file capture option now. Press
return when ready. When the file transfer is
complete, the line

*** Print/Capture Complete ***

will appear. Turn off file capture, then press return
to return to the data display screen.
█
```

From this screen access your telnet software, turn on File Capture, and follow the instructions for capturing a print file within your telnet software. The common method for capturing a print file is to request continuous output and to enter the path and file name to which you want the data to be sent.

After completing the file capture set up under your telnet software, execute the File Capture option as indicated on the telnet software screen. The CBI screen will reappear. Press <ENTER> to initiate the file capture. The file capture function displays the citations to the screen and simultaneously saves the citations to the file you specified. When the function is complete the message “\*\*\*Print/Capture Complete\*\*\*” is displayed

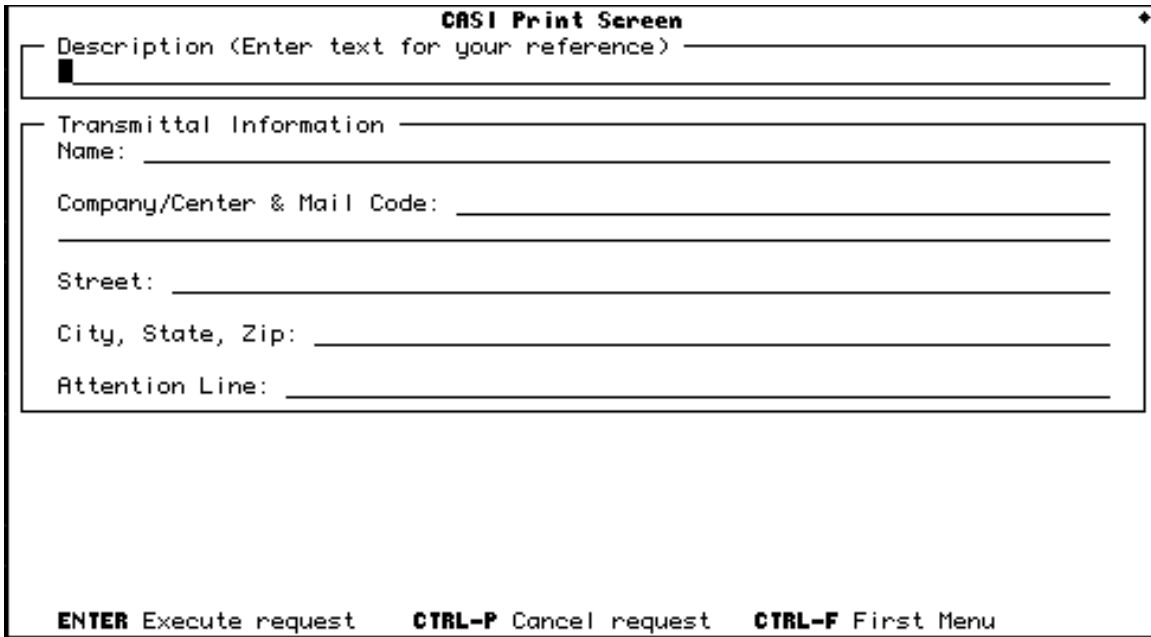
at the bottom of the screen. Turn off your file capture option by accessing your telnet software, and press <**ENTER**> to return to the original CBI display.

The content of the file is an ASCII version of the display format you selected. The content can be imported to a word processor or personal citation management system, or viewed using an editor, Windows Notepad, or your operating system's Type command. Note that the Print/Capture Complete message is displayed at the end of the captured file. This message can be deleted from the captured file using an editor or word processor.

## CASI Print

The CASI Print function allows you to print searches remotely at the NASA Center for Aerospace Information (NASA CASI). The printouts are produced overnight and delivered to you.

To select the CASI Print function, first highlight the Output option and press <ENTER>. Then select which documents you want to print and the format you want to use when the Output and Select Display Format panels are displayed. When the Printer Menu panel is displayed, select CASI Print and press <ENTER>.



The screenshot shows a terminal window titled "CASI Print Screen". It contains a form with the following fields:

- Description (Enter text for your reference) \_\_\_\_\_
- Transmittal Information \_\_\_\_\_
- Name: \_\_\_\_\_
- Company/Center & Mail Code: \_\_\_\_\_
- Street: \_\_\_\_\_
- City, State, Zip: \_\_\_\_\_
- Attention Line: \_\_\_\_\_

At the bottom of the screen, there is a status bar with the following text: **ENTER** Execute request    **CTRL-P** Cancel request    **CTRL-F** First Menu

An optional description may be entered as a reference. You can use the tab key to position the cursor at the other fields. Key your name; company, or center and mail code; and complete mailing address. The optional attention line may contain the name of the person for whom the search is being performed.

Press <ENTER> to execute the request. An informational message is then displayed reminding you of NASA CASI's return policy. Pressing <ENTER> authorizes CASI to print your request.

CASI Print requests may be canceled by contacting the NASA Access Help Desk by 4:00 p.m. on the day the print was requested. Please be prepared to provide your name, the

approximate time you executed the request, and the CASI Print description (if a description was entered).

## △ Creating Subsets of Search Results

Another set can be created by selecting particular documents from an existing set. To create a subset, retrieve the display of the results of a search on the Title List screen. Selections can be made only from the Title List screen. From this screen, select the document by highlighting the title entry and pressing <CTRL-G>. An X appears to the left of each selected document on the Title List screen. Documents may be deselected using <CTRL-G> a second time while the document is highlighted; the X disappears. Multiple documents can be included in the subset by browsing the list, selecting each desired document, and then browsing to the next document of interest.

<b>CTRL-G Select/Deselect Record</b>			
<b>Item</b>	<b>DocNum</b>	<b>Author</b>	<b>Title</b>
11	19900008501	Caruso, J. J.	Prediction of high temperature metal
12	19900006692	Chamis, C. C.	Probabilistic simulation of
13	19900002492	Saravanos, D. A.	An integrated methodology for
X14	19900000869	Saravanos, D. A.	Mechanics of damping for fiber
15	19900000865	Aiello, Robert A.	Composite Blade Structural Analyzer
16	19760000355	Chamis, C. C.	Composite laminate warpage
17	19740000247	Chamis, C. C.	Advanced fiber-composite hybrids--A
18	19740000005	Chamis, C. C.	Criteria for selecting resin matrices
19	19730000247	Chamis, C. C.	Computer program to compute buckling
20	19730000063	Chamis, C. C.	Residual stress effects on the impact
X21	19730000039	Chamis, C. C.	An inexpensive and effective method
22	19730000007	Chamis, C. C.	Fiber composite materials: A survey
23	19720048462	Chamis, C. C.	Design considerations for fiber
24	19720044334	Sullivan, T. L.	Some important aspects in testing
25	19720044333	Chamis, C. C.	Automated testing data reduction
26	19720042367	Chamis, C. C.	Computerized multilevel analysis for
<b>CTRL-E</b> Explain/Help <b>CTRL-F</b> First Menu <b>CTRL-P</b> Previous Screen <b>ENTER</b> Pick <b>VIEW</b> <b>NXT-REC</b> <b>DN-PAGE</b> <b>FIRST-REC</b> <b>OUTPUT</b> <b>LABEL</b> <b>PRV-REC</b> <b>UP-PAGE</b> <b>REQUEST-DOC</b> <b>SUBSET</b> Select a SUBSET of the search set.			

When all desired documents have been selected, highlight the Subset function on the bottom of the display screen, and press <ENTER>. The Title List screen is redisplayed with only the selected documents in the resulting set. All functions, including printing, downloading, and requesting documents, can be performed on this subset.

CTRL-G Select/Deselect Record			
Item	DocNum	Author	Title
1	19900006692	Chamis, C. C.	Probabilistic simulation of
2	19730000247	Chamis, C. C.	Computer program to compute buckling
CTRL-E Explain/Help    CTRL-F First Menu    CTRL-P Previous Screen    ENTER Pick VIEW    NXT-REC    DN-PAGE    FIRST-REC    OUTPUT LABEL    PRV-REC    UP-PAGE    REQUEST-DOC    SUBSET VIEW the contents of the current record.			

## ▲ News

The News function provides access to up-to-date information concerning the status of the RECONplus system. You should access News when you sign on to RECONplus for information concerning file updates, system improvements, and system maintenance, including changes in hours of operation.



## ▲ Overview

The Overview function provides information regarding the use of the system, the contents of the databases, and NASA Access Help Desk information. When Overview is selected three options are displayed. An option is selected by moving the arrow keys up and down or keying the highlighted character. When the option you want is highlighted, press **<ENTER>** to complete the selection.

The screenshot shows a terminal window titled "Main Options". The menu is organized into four columns. The first column contains "QUICK SEARCH", "OVERVIEW", "USING THE SYSTEM", "DATABASE CONTENT", and "WHO TO CALL". The "OVERVIEW" option is highlighted with a black bar. A submenu is open to the right of "OVERVIEW", containing "USING THE SYSTEM", "DATABASE CONTENT", and "WHO TO CALL". The second column contains "FULL SEARCH" and "ECT DATABASE nformation.". The third column contains "COMMAND SEARCH" and "REVIEW/OTHER". The fourth column contains "NEWS" and "EXIT". At the bottom of the window, a status bar lists keyboard shortcuts: "CTRL-E Explain/Help", "CTRL-F First Menu", "CTRL-P Previous Screen", "ENTER Pick", and "CTRL-X Show Status".

Main Options			
QUICK SEARCH	FULL SEARCH	COMMAND SEARCH	NEWS
OVERVIEW	ECT DATABASE	REVIEW/OTHER	EXIT
USING THE SYSTEM	nformation.		
DATABASE CONTENT			
WHO TO CALL			

CTRL-E Explain/Help   CTRL-F First Menu   CTRL-P Previous Screen   ENTER Pick  
CTRL-X Show Status

The text screens that follow the selection may be navigated by pressing **<ENTER>** or **<Pg Dn>** (with Num Lock on) to display the next screen, or by pressing **<Pg Up>** (with Num Lock on) to return to the previous screen of text. **<CTRL-P>** returns to the Main Options Menu.

## ▲ Select Database

When Select Database is chosen from the Main Options Menu, a menu, or list of the currently available databases is displayed.

```

Main Options
QUICK SEARCH      FULL SEARCH      COMMAND SEARCH    NEWS
OVERVIEW          SELECT DATABASE  REVIEW/OTHER      EXIT
Search the database using a query by form.

Which database to open
Main STI Database (STI)
Controlled Distribution STI Database (STIL)
Older STI Database (STIO)
Older Controlled Distribution STI Database (STIOL)
NACA Holdings File (CNACA)
NACA Historical File (NACA)

CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
CTRL-X Show Status

```

You may select one of the displayed databases by using the Up and Down Arrow keys to highlight the desired database and pressing **<ENTER>**.

Database selection may be performed either at the start of your search session or during your search session. A database selected at the start of your search session will remain the active database until you change the selection or exit and re-enter RECONplus.

Similarly, a database selected during your search session will remain the active database until you change the selection or exit and re-enter RECONplus. When you change the selected database during a session, you may re-execute any stored searches or searches that were executed earlier in the current session. See the previous section Re-executing a Search in a Different Database.

## ▲ Review/Other: Set Manipulation

To select the Review/Other function, highlight the Review/Other option from the Main Options Menu and press <ENTER>.

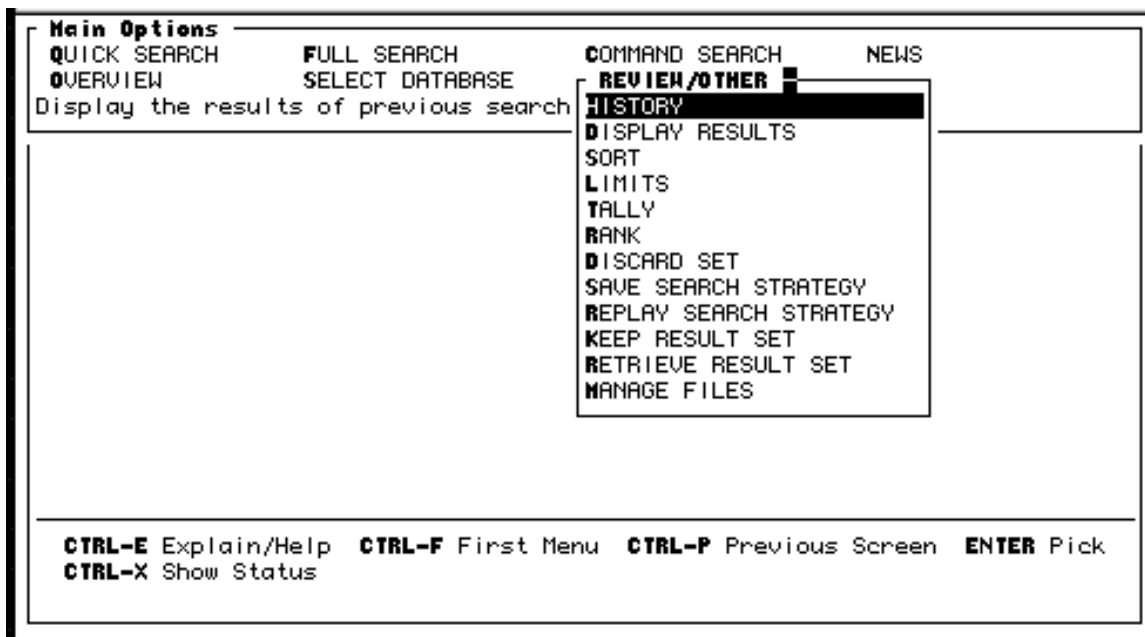
```

Main Options
QUICK SEARCH    FULL SEARCH    COMMAND SEARCH    NEWS
OVERVIEW        SELECT DATABASE    REVIEW/OTHER    EXIT
Display the results of previous searches.

CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
CTRL-X Show Status

```

When Review/Other is selected from the Main Options Menu, the Review/Other panel is displayed listing various functions you can use to manipulate sets you have already created.



From the Review/Other panel you have the following options:

**History.** Shows you a history of your search session.

**Display Results.** Shows you the information in the set. (See previous section.)

**Sort.** Allows you to sort search results.

**Limits.** Allows you to narrow the scope of the search. (Not implemented.)

**Tally.** Applies the Tally command to the selected set.

**Rank.** Applies the Rank command to the selected set.

**Discard Set.** Deletes an unwanted set.

**Save Search Strategy.** Allows you to save a search strategy for later use.

**Replay Search Strategy.** Allows you to open and run a saved search strategy.

**Save Set.** Allows you to save the set results for future retrieval.

**Retrieve Set.** Allows you to retrieve a saved set.

**File Management.** Allows you to browse, open, edit, or delete your saved searches and strategies. This manages all files.

## △ History

When the History option is chosen from the Review/Other panel, a display similar to the one below is displayed. It provides a complete history of your RECONplus session, since you signed on.

```
Search History
***SESSION STARTED AT 20:31:41 ON 20-DEC-1995

DATABASE:
Database Main STI Database (STI) is now open.

SEARCH (Main STI Database (STI)):
au CHAMIS, C. C.;SARAVANOS, D. A.

RESULT:
Search Set 1: 26 Records

SEARCH (Main STI Database (STI)):
au CHAMIS, C. C. and PD >19801231

RESULT:
Search Set 2: 6 Records

SEARCH (Main STI Database (STI)):
Line 1: 18 of 22
CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen
DN-PAGE TOP          OUTPUT
UP-PAGE BOTTOM
Move DOWN a screen in the current file.
```

The Search History can be output to a file or printer using the Output function (see the Output section under Manipulating Search Results).

## △ Display Results

The Display Results option is used to display results from sets previously created during this session.

If the Display Results option is chosen from the Review/Other panel when only one set has been created in the current session, the Title List screen will be displayed.

If the Display Results option is selected from the Review/Other panel when more than one set has been created in the current session, you will be prompted to select the set for which you wish to view results. You may select one of the displayed sets on the Select Set panel by using the Up and Down Arrow keys to highlight the desired set and pressing <ENTER>; then the Title List screen will be displayed.

**Main Options**

QUICK SEARCH	FULL SEARCH	COMMAND SEARCH	NEWS
OVERVIEW	SELECT DATABASE	<b>REVIEW/OTHER</b>	

Dis **Select Set**

- Set 3 (5 Records) au CHAMIS, C. C. and PD >19801231 and BI FIBER;C...
- Set 2 (6 Records) au CHAMIS, C. C. and PD >19801231
- Set 1 (26 Records) au CHAMIS, C. C.;SARAVANOS, D. A.

**RANK**

- DISCARD SET
- SAVE SEARCH STRATEGY
- REPLAY SEARCH STRATEGY
- KEEP RESULT SET
- RETRIEVE RESULT SET
- MANAGE FILES

**CTRL-E** Explain/Help   **CTRL-F** First Menu   **CTRL-P** Previous Screen   **ENTER** Pick  
**CTRL-X** Show Status

<b>CTRL-G Select/Deselect Record</b>			
<b>Item</b>	<b>DocNum</b>	<b>Author</b>	<b>Title</b>
1	19900002492	Saravanos, D. A.	An integrated methodology for
2	19900006692	Chamis, C. C.	Probabilistic simulation of
3	19900008501	Caruso, J. J.	Prediction of high temperature metal
4	19900010822	Thanedar, P. B.	Composite laminate tailoring with
5	19900011116	Saravanos, D. A.	Computational simulation of damping in
<b>CTRL-E</b> Explain/Help <b>CTRL-F</b> First Menu <b>CTRL-P</b> Previous Screen <b>ENTER</b> Pick <b>VIEW</b> <b>NXT-REC</b> <b>DN-PAGE</b> <b>FIRST-REC</b> <b>OUTPUT</b> <b>LABEL</b> <b>PRV-REC</b> <b>UP-PAGE</b> <b>REQUEST-DOC</b> <b>SUBSET</b> <b>VIEW</b> the contents of the current record.			

In either case, the Title List screen functions as described in the section Display of Search Results, under Manipulating RECONplus Search Results.

## △ Sort

The order of the output of records is last-in-first-out, so the most recent citations are output first. The sort option may be used to change this default order.

When the Sort option is chosen from the Review/Other panel, you will be prompted to select the set you wish to sort. The set is chosen by using the Up and Down Arrow keys to highlight the desired set and pressing <ENTER>.

The screenshot displays the RECONplus CBI interface. At the top, the 'Main Options' menu is visible with the following items: QUICK SEARCH, FULL SEARCH, COMMAND SEARCH, and NEWS. Below these, the 'REVIEW/OTHER' option is selected, indicated by a cursor. A prompt 'Dis- Select set to sort' is shown, followed by a list of three sets: Set 3 (5 Records) au CHAMIS, C. C. and PD >19801231 and BI FIBER;C..., Set 2 (6 Records) au CHAMIS, C. C. and PD >19801231, and Set 1 (26 Records) au CHAMIS, C. C.;SARAVANOS, D. A. To the right of this list, a vertical menu contains the following options: RANK, DISCARD SET, SAVE SEARCH STRATEGY, REPLAY SEARCH STRATEGY, KEEP RESULT SET, RETRIEVE RESULT SET, and MANAGE FILES. At the bottom of the screen, a status bar provides keyboard shortcuts: CTRL-E Explain/Help, CTRL-F First Menu, CTRL-P Previous Screen, ENTER Pick, and CTRL-X Show Status.

```
Main Options
QUICK SEARCH    FULL SEARCH    COMMAND SEARCH    NEWS
OVERVIEW        SELECT DATABASE  REVIEW/OTHER
Dis- Select set to sort
Set 3 (5 Records) au CHAMIS, C. C. and PD >19801231 and BI FIBER;C...
Set 2 (6 Records) au CHAMIS, C. C. and PD >19801231
Set 1 (26 Records) au CHAMIS, C. C.;SARAVANOS, D. A.

RANK
DISCARD SET
SAVE SEARCH STRATEGY
REPLAY SEARCH STRATEGY
KEEP RESULT SET
RETRIEVE RESULT SET
MANAGE FILES

CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
CTRL-X Show Status
```



When the set to sort is chosen, you will be presented with a list of fields by which you may sort the search results. The first list of fields provides an ascending sort order. The list at the bottom provides for descending sort by several applicable fields.

<b>Main Options</b>			
QUICK SEARCH	FULL SEARCH	COMMAND SEARCH	NEWS
OVERVIEW	SELECT DATABASE	REVIEW/OTHER	
Display the results of previous search		HISTORY	
<b>Fields on which to sort</b>		PLAY RESULTS	
Clear Existing Sorts		T	
[-- Ascending --]		LY	
Accession Number		K	
Author		CARD SET	
Contract Date		E SEARCH STRATEGY	
Document Number		LAY SEARCH STRATEGY	
File Segment		P RESULT SET	
Language		RIEVE RESULT SET	
Major Controlled Index Term		AGE FILES	
Media			
CTRL-G Get/Drop			
<b>Current Sort String</b>			

<b>Main Options</b>			
QUICK SEARCH	FULL SEARCH	COMMAND SEARCH	NEWS
OVERVIEW	SELECT DATABASE	REVIEW/OTHER	
Display the results of previous search		HISTORY	
<b>Fields on which to sort</b>		PLAY RESULTS	
Major Controlled Index Term		T	
Media		LY	
Organization: Author Affiliation		K	
Organization Source		CARD SET	
Report Number		E SEARCH STRATEGY	
Security Classification		LAY SEARCH STRATEGY	
Subject Category Code		P RESULT SET	
[-- Descending --]		RIEVE RESULT SET	
Contract Date		AGE FILES	
Document Number			
CTRL-G Get/Drop			
<b>Current Sort String</b>			

Up to 10 fields may be chosen. To choose one or more fields to sort on, highlight the field name you want in the Fields on Which to Sort panel using the Up and Down Arrow keys; press <CTRL-G> to select the highlighted field. To deselect a highlighted field press <CTRL-G> with your cursor at that field.

The selected field(s) will appear in the Current Sort String panel. When you have finished selecting the search criteria you wish to use, press <ENTER>. A new set will be created with the results sorted by the criteria you have specified.

The sort will be performed in the order of the selection. Within a sort order, the records are output in first-in-first-out order. If you want to maintain the last-in-first-out order as the lowest level of the sort order, select descending order for the Entry Date field as the last sort field selected.

If you want to delete the selected sort strings, position the cursor at the Clear Existing Sorts option at the top of the list of fields and press <ENTER>. The content of the Current Sort String box will be deleted.

## △ **Limits**

The Limit function will allow you to limit the scope of a previous defined set by certain criteria such as language, document type and publication date. The scope of a search can be limited by adding “And” clause to the search. The Limits screens are currently not implemented.

## △ Tally and Rank

Tally and Rank are special statistical functions that can be performed with RECONplus. Each of them sorts the results by the occurrence of terms in the field specified. Tally displays the terms in alphabetical order with the number of occurrences to the left, while Rank displays the terms in descending order by number of occurrences. They otherwise function identically.

```

Main Options
QUICK SEARCH    FULL SEARCH    COMMAND SEARCH    NEWS
OVERVIEW        SELECT DATABASE  REVIEW/OTHER
Dis Select set to tally
Set 3 (5 Records) au CHAMIS, C. C. and PD >19801231 and BI FIBER;C...
Set 2 (6 Records) au CHAMIS, C. C. and PD >19801231
Set 1 (26 Records) au CHAMIS, C. C.;SARAVANOS, D. A.

RANK
DISCARD SET
SAVE SEARCH STRATEGY
REPLAY SEARCH STRATEGY
KEEP RESULT SET
RETRIEVE RESULT SET
MANAGE FILES

CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
CTRL-X Show Status

```

When Tally or Rank options are selected from the Review/Other panel, you will be prompted to select a set to Tally or Rank. The set is chosen by using the Up and Down Arrow keys to highlight the desired set and pressing <ENTER>.

When you have selected a set the Select field to Tally/Rank panel will be displayed, which permits you to choose a field to tally or rank. The field is chosen by using the Up and Down arrow keys to highlight the desired set and pressing <ENTER>.

<b>Main Options</b>			
QUICK SEARCH	FULL SEARCH	COMMAND SEARCH	NEWS
OVERVIEW	SELECT DATABASE	REVIEW/OTHER	
Display the results of previous search		HISTORY	
<b>Select field to tally/rank</b>		SULTS	
Accession Number			
<b>Author</b>			
Author Affiliation			
Author Affiliation (First)			
Contract Date			
Document Type			
Financial Sponsor Type			
Language			
Language (First)			
Major Controlled Index Term			
<b>CTRL-E</b> Explain/Help <b>CTRL-F</b> First Menu <b>CTRL-P</b> Previous Screen <b>ENTER</b> Pick <b>CTRL-X</b> Show Status			

After pressing <ENTER>, the boxed message "Counting" is displayed on the screen. This message will remain on the screen until the Tally/Rank operation is completed.

When the Tally/Rank operation is completed, the results will be shown either on the Tally of Terms or the Ranking of Terms display, depending on whether you selected the Tally or Rank operation. (Please see the examples shown on the next page.)

In either display, you may navigate through the Tally/Rank list using the Up and Down Arrow keys, the Page Up and Page Down keys, or the navigation commands at the bottom of the screen. The commands at the bottom of the screen may be navigated using the Left and Right Arrow keys or by typing the first letter of the option and pressing <ENTER>. Search terms may not be selected from these displays. The results of a Rank or Tally can be downloaded or output to a printer using the Output function.

Tally of terms in Author	
Count	Term
1	Caruso, J. J.
6	Chamis, C. C.
2	Saravanos, D. A.
1	Thanedar, P. B.

Line 1:6 of 6

**CTRL-E** Explain/Help    **CTRL-F** First Menu    **CTRL-P** Previous Screen  
**DN-PAGE** TOP    OUTPUT  
**UP-PAGE** BOTTOM  
Move DOWN a screen in the current file.

Ranking of terms in Author	
Count	Term
6	Chamis, C. C.
2	Saravanos, D. A.
1	Caruso, J. J.
1	Thanedar, P. B.

Line 1:6 of 6

**CTRL-E** Explain/Help    **CTRL-F** First Menu    **CTRL-P** Previous Screen  
**DN-PAGE** TOP    OUTPUT  
**UP-PAGE** BOTTOM  
Move DOWN a screen in the current file.

## △ Discard Set

If you want to discard a set you have created, you may choose Discard Set from the Review/Other Menu by highlighting it with the Up and Down Arrow keys and pressing **<ENTER>**.

```

Main Options
QUICK SEARCH    FULL SEARCH    COMMAND SEARCH    NEWS
OVERVIEW       SELECT DATABASE
Display the results of previous search

REVIEW/OTHER
HISTORY
DISPLAY RESULTS
SORT
LIMITS
TALLY
RANK
DISCARD SET
SAVE SEARCH STRATEGY
REPLAY SEARCH STRATEGY
KEEP RESULT SET
RETRIEVE RESULT SET
MANAGE FILES

CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
CTRL-X Show Status

```

When you have chosen Discard Set you will be prompted to choose a set to discard from a list of the current sets. Select the set to discard by highlighting it using the cursor keys. Only one set may be discarded at a time. Press **<ENTER>** to discard the highlighted set.

A confirmation message is displayed. Press **<ENTER>** to confirm the discard, or highlight the No option and press **<ENTER>** to cancel the discard.

**NOTE:** You will not be prompted to confirm that you want to delete the set.

When a set is discarded the subsequent sets are renumbered. Combine statements retain their original set numbers and results.

<b>Main Options</b>			
QUICK SEARCH	FULL SEARCH	COMMAND SEARCH	NEWS
OVERVIEW	SELECT DATABASE	REVIEW/OTHER	
Dis	<b>Select Set</b> <ul style="list-style-type: none"> <li>Set 3 (5 Records) au CHAMIS, C. C. and PD &gt;19801231 and BI FIBER;C...</li> <li>Set 2 (6 Records) au CHAMIS, C. C. and PD &gt;19801231</li> <li>Set 1 (26 Records) au CHAMIS, C. C.;SARAVANOS, D. A.</li> </ul>		
	<b>RANK</b> <ul style="list-style-type: none"> <li>DISCARD SET</li> <li>SAVE SEARCH STRATEGY</li> <li>REPLAY SEARCH STRATEGY</li> <li>KEEP RESULT SET</li> <li>RETRIEVE RESULT SET</li> <li>MANAGE FILES</li> </ul>		
<b>CTRL-E</b> Explain/Help <b>CTRL-F</b> First Menu <b>CTRL-P</b> Previous Screen <b>ENTER</b> Pick <b>CTRL-X</b> Show Status			



## △ Save Search Strategy

To save a search strategy, select the Save Search Strategy option from the Review/Other panel and press <ENTER>.

When the Save Search Strategy option is selected from the Review/Other panel, you will be prompted to select the starting set for the save strategy. Multiple sets must be chosen when built from each other—for example, original strategies that created sets and then combinations of them. The starting set is chosen by using the Up and Down Arrow keys to highlight the desired starting set and pressing <ENTER>.

The screenshot displays the RECONplus CBI interface. At the top, the 'Main Options' menu is visible with the following items: QUICK SEARCH, FULL SEARCH, COMMAND SEARCH, NEWS, OVERVIEW, SELECT DATABASE, and REVIEW/OTHER (which is highlighted with a cursor). Below this menu, a dialog box titled 'Select starting set for save' is open, showing a list of sets: Set 3 (5 Records) au CHAMIS, C. C. and PD >19801231 and BI FIBER;C..., Set 2 (6 Records) au CHAMIS, C. C. and PD >19801231, and Set 1 (26 Records) au CHAMIS, C. C.;SARAVANOS, D. A. (Set 1 is highlighted). To the right of the dialog, a 'RANK' sub-menu is open, listing options: DISCARD SET, SAVE SEARCH STRATEGY (highlighted), REPLAY SEARCH STRATEGY, KEEP RESULT SET, RETRIEVE RESULT SET, and MANAGE FILES. At the bottom of the screen, a status bar provides keyboard shortcuts: CTRL-E Explain/Help, CTRL-F First Menu, CTRL-P Previous Screen, ENTER Pick, and CTRL-X Show Status.

You will then be prompted to select an ending set for the save strategy. The ending set is chosen by using the Up and Down Arrow keys to highlight the desired ending set and pressing <ENTER>.

<b>Main Options</b>			
QUICK SEARCH	FULL SEARCH	COMMAND SEARCH	NEWS
OVERVIEW	SELECT DATABASE	REVIEW/OTHER	
Dis- Select starting set for save			
Set 3 (5 Records) au CHAMIS, C. C. and PD >19801231 and BI FIBER;C...			
Set 2 (6 Records) au CHAMIS, C. C. and PD >19801231			
Set 1 (26 Records) au CHAMIS, C. C.;SARAVANOS, D. A.			
RANK			
DISCARD SET			
SAVE SEARCH STRATEGY			
REPLAY SEARCH STRATEGY			
KEEP RESULT SET			
RETRIEVE RESULT SET			
MANAGE FILES			
CTRL-E Explain/Help    CTRL-F First Menu    CTRL-P Previous Screen    ENTER Pick			
CTRL-X Show Status			

If you want to select only one set, choose the same ending set as the starting set.

After having selected beginning and ending sets for the saved strategy, you will be prompted to enter a file name for the saved strategy. Type the name you wish to give the saved strategy and press <ENTER>.

<b>Main Options</b>			
QUICK SEARCH	FULL SEARCH	COMMAND SEARCH	NEWS
OVERVIEW	SELECT DATABASE	<b>REVIEW/OTHER</b>	
Display the results of previous search		HISTORY	
		DISPLAY RESULTS	
		SORT	
		LIMITS	
		TALLY	
<b>Enter file for search</b>			
File? chamis1			
REPLAY SEARCH STRATEGY			
KEEP RESULT SET			
RETRIEVE RESULT SET			
MANAGE FILES			
<hr/>			
CTRL-E Explain/Help   CTRL-F First Menu   CTRL-P Previous Screen   ENTER Pick			
CTRL-X Show Status			

After you have entered a file name, you will be prompted to enter a short description of the strategy. This is optional. Enter the description (or not) and press <ENTER>. Then a message confirming that the search was saved will be displayed. Press <ENTER> to clear the message from the screen.

## △ Replay Search Strategy

This function replays searches stored using the Save Search Strategy option. When the Replay Search Strategy option is chosen from the Review/Other panel, you will be prompted to enter the name of the Search Strategy you want to replay. If you are unsure of the name of the Search Strategy, you may enter a question mark symbol (“?”) and RECONplus will display a list of your stored strategies.

<b>Main Options</b>			
QUICK SEARCH	FULL SEARCH	COMMAND SEARCH	NEWS
OVERVIEW	SELECT DATABASE	<b>REVIEW/OTHER</b>	
Display the results of previous search		HISTORY	
		DISPLAY RESULTS	
		SORT	
		LIMITS	
		TALLY	
Search strategy file (? for list of files)			
File? chamis1			
<b>REPLAY SEARCH STRATEGY</b>			
KEEP RESULT SET			
RETRIEVE RESULT SET			
MANAGE FILES			
<b>CTRL-E</b> Explain/Help <b>CTRL-F</b> First Menu <b>CTRL-P</b> Previous Screen <b>ENTER</b> Pick			
<b>CTRL-X</b> Show Status			

When the strategy to be replayed is selected, RECONplus re-executes the strategy, assigning the next available set number to each strategy in the saved file, and displays the results. Note that results may change if the database has been updated or if the strategy is executed against a different active database.

```
Search Results: -----
Searching:
  au CHAMIS, C. C.;SARAVANOS, D. A.
Result:  Set 4, 26 records found.
-----
Searching:
  au CHAMIS, C. C. and PD >19801231
Result:  Set 5, 6 records found.
-----
Searching:
  au CHAMIS, C. C. and PD >19801231 and BI FIBER;COMPOSITES
Result:  Set 6, 5 records found.
-----

Line 1: 12 of 12-
CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen
DN-PAGE  TOP      OUTPUT
UP-PAGE  BOTTOM
Move DOWN a screen in the current file.
```

## △ Keep Result Set

The Keep Result Set option allows you to save a set of results for future retrieval, printing, or downloading. When the Keep Result Set option is chosen from the Review/Other panel, you will be prompted to select the set you wish to save. The set is chosen by using the Up and Down Arrow keys and pressing <ENTER>.

The screenshot displays the RECONplus CBI interface. At the top, the 'Main Options' menu is visible with the following items: QUICK SEARCH, FULL SEARCH, COMMAND SEARCH, NEWS, OVERVIEW, SELECT DATABASE, and REVIEW/OTHER (which is currently selected). Below this menu, a 'Dis' (Display) prompt is followed by a 'Select set to store' list. This list contains five entries, each representing a search set with its record count and search criteria:

- Set 6 (5 Records) FIND DB WHERE au='CHAMIS, C. C.' AND PD > '19801...
- Set 5 (6 Records) FIND DB WHERE au='CHAMIS, C. C.' AND PD > '19801...
- Set 4 (26 Records) FIND DB WHERE au='CHAMIS, C. C.', 'SARAVANOS, D....
- Set 3 (5 Records) au CHAMIS, C. C. and PD >19801231 and BI FIBER;C...
- Set 2 (6 Records) au CHAMIS, C. C. and PD >19801231
- Set 1 (26 Records) au CHAMIS, C. C.;SARAVANOS, D. A.

Below the list, a sub-menu is displayed with the following options: REPLAY SEARCH STRATEGY, KEEP RESULT SET (highlighted), RETRIEVE RESULT SET, and MANAGE FILES.

At the bottom of the screen, a status bar provides keyboard shortcuts: CTRL-E Explain/Help, CTRL-F First Menu, CTRL-P Previous Screen, ENTER Pick, and CTRL-X Show Status.

After you select the set you want to save, you will be prompted to enter the name under which you want the set to be stored. You may type the name in the Enter File for Set Store panel and press <ENTER>, or you may type a question mark (“?”) to generate a list of file names, select the name, and press <ENTER>.

Main Options			
QUICK SEARCH	FULL SEARCH	COMMAND SEARCH	NEWS
OVERVIEW	SELECT DATABASE	REVIEW/OTHER	
Display the results of previous search		HISTORY	
		DISPLAY RESULTS	
		SORT	
		LIMITS	
		TALLY	
Enter file for set store			
File? chamis			
		REPLAY SEARCH STRATEGY	
		KEEP RESULT SET	
		RETRIEVE RESULT SET	
		MANAGE FILES	
CTRL-E Explain/Help   CTRL-F First Menu   CTRL-P Previous Screen   ENTER Pick			
CTRL-X Show Status			

Please note that the Keep Result Set option stores the set under the UNIX file system of the server and, therefore, the *file names* you use are *case sensitive* (i.e., you may name a file using any combination of upper and lower case letters you wish. However, if you named a file “next,” neither “NEXT” nor “next” would be considered the same file by the system.) A message will be displayed telling you that the set has been saved. The message will disappear after you have acknowledged it by pressing <ENTER>. The set is then stored and available to you for recall at a later time using the Retrieve Result Set function.

## △ Retrieve Result Set

The Retrieve Result Set function is used to restore sets previously saved with the Keep Result Set option. When you choose the Retrieve Set option from the Review/Other panel, you will be prompted to enter the name of the set you want to restore. Type the name of a previously stored set and press <ENTER>.

The screenshot displays the RECONplus CBI main menu. At the top, 'Main Options' is highlighted. Below it, several menu items are listed: QUICK SEARCH, FULL SEARCH, COMMAND SEARCH, and NEWS. The 'REVIEW/OTHER' option is selected, opening a sub-menu. This sub-menu contains: HISTORY, DISPLAY RESULTS, SORT, LIMITS, TALLY, REPLAY SEARCH STRATEGY, KEEP RESULT SET, RETRIEVE RESULT SET (which is highlighted), and MANAGE FILES. A prompt 'File for set restore (? for list of files)' is shown with the text 'File? chamis' entered. At the bottom, a legend lists keyboard shortcuts: CTRL-E Explain/Help, CTRL-F First Menu, CTRL-P Previous Screen, ENTER Pick, and CTRL-X Show Status.

```
Main Options
QUICK SEARCH    FULL SEARCH    COMMAND SEARCH    NEWS
OVERVIEW        SELECT DATABASE
Display the results of previous search

File for set restore (? for list of files)
File? chamis

REPLAY SEARCH STRATEGY
KEEP RESULT SET
RETRIEVE RESULT SET
MANAGE FILES

CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
CTRL-X Show Status
```

A message will be displayed notifying you that the set has been restored and displaying the new number the set has been given. The message will disappear after you have acknowledged it by pressing <ENTER>. The set is then loaded and available for any operation you want to perform, as though it were a newly created set.



## △ Manage Files

During the process of storing search strategies, search results, and stored output formats, files are created on the RECONplus system under your user ID. These files can be managed using the Manage Files option on the Review/Other panel. Note that stored files should be reviewed periodically to ensure that out-of-date files are not retained unnecessarily.

When the Manage Files option is chosen from the Review/Other panel, a list of saved files similar to the one below will be displayed. Saved sets will have the system-assigned file extension “.set” and saved searches will have the system-assigned file extension “.search”. You may select any of the displayed files for viewing or deletion.

Date	File Name	Description
Oct 24 15:56	b1stab2.search	larc/scott berry/ms-408a
Oct 24 15:16	bonjoin1.search	larc/d.everett/ms-188e
Feb 8 16:39	chamis.set	U=chamis?*
Dec 20 20:50	chamis1.search	
Jan 24 17:09	combxmp2.set	AND DT Technical Report
Jan 24 17:09	combxple.set	1 aeroelastic;aeroelasticity
Dec 15 21:18	dateprob.search	incorrect results from date searches
Jan 18 08:50	djp_b1stab2.search	
Feb 6 15:08	dumbsearch.search	Really dumb search
Jan 18 09:32	entryblank.search	
Dec 13 14:39	fire1(lexi).search	nasa/lewis/friedman/ms 500-115
Jan 24 11:18	geolas(id05).search	nasa/gsfsc/jdegnan/ms-252
Jan 24 11:56	hydrocar(id05).search	nasa/gsfsc/wmaguire/ms-252
Dec 13 15:45	indiumph(ida1).search	nasa/lewis/weinberg/ms302-1
Dec 13 14:57	indum2(lexi).search	nasa/lewis/turner+jain/ms 302-1
Dec 18 10:25	janten(id24).search	nasa/gsfsc/r jackson/ms c.727.1
<b>CTRL-E</b> Explain/Help <b>CTRL-F</b> First Menu <b>CTRL-P</b> Previous Screen <b>ENTER</b> Pick		
<b>DN-PAGE</b>	<b>TOP</b>	<b>VIEW</b> <b>REVISE</b>
<b>UP-PAGE</b>	<b>BOTTOM</b>	<b>ERASE</b>
Go to NEXT PAGE within this list.		

To select a file, highlight it using the Up and Down Arrow keys. To view the selected file (the default action), highlight View in the navigation options at the bottom of the screen by using the Left and Right Arrow keys and press <ENTER>. To delete the selected file, highlight Delete in the navigation options and press <ENTER>.

**NOTE:** The necessary file extensions are supplied by the system. The user should not add any file extension to any file saved through the RECONplus system.

## Editing a Stored Search

To edit a stored search, highlight the file to be edited, select the Edit function from the navigation options at the bottom of the Manage File screen, and press <ENTER>. The file is displayed preceded by the description of the file, if one was entered.

The cursor movement and editing function keys are described at the bottom of the PICO editor screen used by RECONPLUS. The carat (^) character in the onscreen legend denotes the use of the Control key. To edit the stored search, use the cursor and editing keys to navigate and manipulate the text, deleting and/or adding whatever text you want.



The screenshot shows a terminal window titled "RECON+ PICO 2.5" with a file path "File: .../RECONUSER/userserv.AGILITY.search". The main text area contains two lines: "<desc>FIGHTER AIRCRAFT" and "<search>ctmj fighter aircraft AND (ctmj maneuverability; ctmj aircraft maneuve\$". At the bottom, a status bar displays "[ Read 2 lines ]" and a grid of function key shortcuts: ^G Get Help, ^X Exit, ^^ Pick Text, ^J Justify, ^L Redraw Pg, ^W Where is, ^Y Prev Pg, ^U Next Pg, ^K Cut Text, ^U UnCut Text, ^C Cur Pos, and ^T To Spell.

When you finish editing the search statement, press <CTRL-X> to exit the editor and return to RECONPLUS. You will be asked to confirm that you want the changes made to the file when you exit the editor. If you answer Yes, your edits will be written to the file; if you answer No, the file will remain as it was before you edited it. Onscreen help is available in the editor by typing <CTRL-H>.

The following function keys available to you at the RECONPLUS PICO editor screen:

- ^G Get Help:** Calls the online help screens
- ^X Exit:** Exits the editor

- ^P Previous Line:** Moves the cursor up one line
- ^N Next Line:** Moves the cursor down one line
- ^F Forward Character:** Moves the cursor one character to the right
- ^B Back Character:** Moves the cursor one character to the left
- ^D Delete Character:** Deletes the character at the cursor position
- ^T Pick Text:** Toggles Pick Text mode. Use the cursor movement keys to select text.
- ^K Cut Text:** Cuts text selected with **<CTRL-T>**
- ^U Uncut Text:** Returns deleted text to the screen
- ^C Cursor Position:** Shows the cursor position<sup>3</sup>
- ^L Redraw:** Causes the screen to be refreshed<sup>4</sup>

---

<sup>3</sup>This function should only be used if your telnet software is unable to display the cursor provided by the editor.

<sup>4</sup>This function is not generally used, but is of great value if a system message or other text from outside of RECONPLUS is written to your screen. In such an instance the **<CTRL-L>** command will cause the screen to be “refreshed,” eliminating any offending text that may be cluttering your editing screen.

## ▲ Exit

To exit RECONplus, choose Exit from the Main Options Menu and press <ENTER>. You will be prompted to confirm that you want to exit the system. Press <ENTER> after the confirmation message appears to exit the system. All unsaved strategies and result sets will be lost. If you do not want to exit, type <CTRL-P> to remain in RECONplus.

```

Main Options
QUICK SEARCH    FULL SEARCH    COMMAND SEARCH    NEWS
OVERVIEW        SELECT DATABASE  REVIEW/OTHER      EXIT
Exit the database.

Press <RETURN> to confirm exit from the RECONplus database.

If you wish to remain in RECONplus, then press Ctrl-P to
cancel exit.

CTRL-E Explain/Help  CTRL-F First Menu  CTRL-P Previous Screen  ENTER Pick
CTRL-X Show Status

```

The Exit option should be used to properly exit the system and perform all necessary file clean up. If you exit the system by exiting your telnet session rather than using the Exit function, it will be treated as an aborted session and the sets created during the session will be temporarily saved (see the previous section Logon and Autosave after Abnormal Exit, under NASA RECONplus Logon).

# APPENDIXES

**APPENDIX A—Scheme of Indexes**

## APPENDIXES

### ▲ Appendix A—Scheme of Indexes for the RECONplus Databases

SEARCH TAG	INDEX NAME	FIELD NAME	SEARCH EXAMPLES	INDEX TYPE	PUNCTUATION & (**) HYPHENS
AA	Author	Author Affiliation	AA AMES LAB.	Phrase	Yes **
AAW	Author Affiliation	Author Affiliation	AAW AMES;LAB	Word	No
AN	Accession Number	- Previous Control Number	AN 92N11007	Phrase	No
AU	Author	Personal Name	AU GREENE, J. B.	Phrase	Yes **
BI	Basic Index	Spelled-out Category - Title - Title Extension - Extended Abstract - Index Term (all sources) - Non-NASA Controlled Index (all sources)	BI AERONAUTICAL;ENGINEERING	Word	Yes **
CD	Contract Date	Contract State		Word	
CN	Contract/ Grant Number	- Contract Number - Grant Number - Project Task Number	CN NAGW104	Phrase	No
CO	Country/ International Organization	- Country of Publication - Country of Organization - Country of Meeting	CO JP	Code	No
CT	Controlled Index Term	Controlled Index Term (NASA only)	CT COMPUTER PROGRAMS	Phrase	Yes **
CTMJ	Controlled Major Term	Controlled Major Index Term	CTMJ COMPUTER PROGRAMS	Phrase	Yes **

Legend: \*\* Hyphens allowed in text

Note: Enter commands in UPPERCASE, lowercase, or Initial Caps.

SEARCH				INDEX	PUNCTUATION
<u>TAG</u>	<u>INDEX NAME</u>	<u>FIELD NAME</u>	<u>SEARCH EXAMPLES</u>	<u>TYPE</u>	<u>&amp; (**) HYPHENS</u>
DN	Document Number	Document ID Number	DN 1985000001	Number	No
DS	Distribution Status	Restriction on Access	DS UNLIMITED	Phrase	Yes
DT	Document Type	Document Class	DT TECHRPT/TECHNICAL REPORT	Abbr. or Phrase	Yes **
ED	Entry Date	Entry Date of Document	ED Aug 12, 1986 or 19860812	Date	Yes
FST	Finanical Sponsor	Financial Sponsor		Word	
ID	Identifier	Identifier (NASA only)	ID C-LANGUAGE	Phrase	Yes **
IDW	Identifier (Word)	Idetifier Word (NASA only)	IDW C&LANGUAGE	Word	No
ISBN	ISBN	ISBN	ISBN ISBN0309034817	Phrase	No
ISSN	ISSN	ISSN	ISSN ISSN00011096	Phrase	No
LA	Language	Document Language	LA GM/GERMAN	Code or Word	No
MD	Meeting Date	Meeting Date	MD JUN 19, 1991 or 19840619	Date	Yes
ME	Media	Availability Format	ME HC	Code	Yes
NP	Nonprint Number	- Nonprint Number	NP NONPNASAVT9556871	Phrase	No

Legend: \*\* Hyphens allowed in text

Note: Enter commands in UPPERCASE, lowercase, or Initial Caps.



SEARCH					INDEX	PUNCTUATION
<u>TAG</u>	<u>INDEX NAME</u>	<u>FIELD NAME</u>	<u>SEARCH EXAMPLES</u>		<u>TYPE</u>	<u>&amp; (**) HYPHENS</u>
NU	Numbers	<ul style="list-style-type: none"> <li>- Patent/Application Number</li> <li>- Legal Case Number</li> <li>- Copyright Registration Number</li> <li>- Copyright Article-Fee Code</li> <li>- ISBN</li> <li>- ISSN</li> <li>- Previous Control Number</li> <li>- GPO Number</li> <li>- Report Number</li> <li>- Cancelled/Invalid Report Number</li> <li>- Document Number</li> <li>- NACA Shelflist Number</li> <li>- Contract Number</li> <li>- Grant Number</li> <li>- Project Task Number</li> <li>- Nonprint Number</li> </ul>	NU 92N10010		Phrase	No
ONW	Organization Name Word	<ul style="list-style-type: none"> <li>- Publisher</li> <li>- Org. Name linked to Subordinate Unit</li> </ul>	ONW CAMBRIDGE;UNIV.		Word	No
OS	Organization Source	Organization Name	OS ALABAMA UNIV.		Phrase	Yes **
OSW	Organization Source Word	Organization Name	OSW ALABAMA;UNIV		Word	No
PD	Publication Date	Date of Publication	PD OCT 5, 1991 or 19911005		Date	Yes
PN	Patent/application Number	Patent/Application Number	PN USPATENTAPPLSN219016		Phrase	No
RN	Report Number	<ul style="list-style-type: none"> <li>- GPO Number</li> <li>- Report Number</li> <li>- Cancelled/Invalid Report Number</li> </ul>	RN NASATM105024		Phrase	No
RS	Report Status	Type of progress Report Status	RS FINAL&REPORT		Word	No

Legend: \*\* Hyphens allowed in text

Note: Enter commands in UPPERCASE, lowercase, or Initial Caps.

SEARCH				INDEX	PUNCTUATION
<u>TAG</u>	<u>INDEX NAME</u>	<u>FIELD NAME</u>	<u>SEARCH EXAMPLES</u>	<u>TYPE</u>	<u>&amp; (**) HYPHENS</u>
SCC	Category Code	Subject Category Code (NASA only)	SCC 43	Code	No
SO	Source Host	- Meeting Name - Host Item Title	SO STRINGS AND SYMMETRIES CONFERENCE	Phrase	Yes **
SOW	Source Host Word	- Meeting Name - Host Item Title	SOW STRINGS;SYMMETRIES;CONFERENCE	Word	No
TI	Titles	- Title - Title Extension - Foreign Language Title - Series Title - Meeting Name	TI SPACE SHUTTLE	Word	Yes **
UD	Update	[Load date of the record]	UD OCT 5, 1991 or 19911005	Date	Yes

Legend: \*\* Hyphens allowed in text

Note: Enter commands in UPPERCASE, lowercase, or Initial Caps.

# **APPENDIX B—RECON to RECONplus Command Comparison**

## ▲ Appendix B—RECON and RECONplus Command Comparison

A key component of the NASA STI Modernization project is the replacement of the present search and retrieval database known as NASA/RECON. It's replacement, RECONplus, is a commercial off-the-shelf (COTS) system that provides improved access to more than 3 million NASA STI bibliographic citations. RECONplus offers not only many of the same features of RECON but also expanded search functionality and additional indexes. This appendix (1) shows how search functions were performed using RECON; (2) provides examples of how they may now be performed using RECONplus; and (3) indicates those little-used RECON functions that are not available from this COTS product and/or are no longer applicable.

The expanded search capability results from both the restructuring of the databases and a simplification of search rules. The new RECONplus database structure provides consistent access across all document types and across all available databases. It is no longer necessary to remember different search tags for different file collections or indexes. Instead of using "UTP" to search for a Title in the D file and "TTL" to search for a Title in the R file, you now can use "TI" to search for a Title across all collections or databases.

The RECONplus database features a greatly increased number of searchable, sortable, and displayable indexes. Most notable are the new Language, Document Type, Publication Date, and Subject Category indexes. Another new feature is a choice of Word or Phrase index searching for indexes that may have lengthy strings of information. Other enhancements include the capability of searching global indexes such as the Basic Index, which encompasses the Title, Abstract, Control Terms, Subject Categories, and other indexes, and the Number Index, which is composed of the Report Number, Contract Number, and other indexes.

Function	NASA/RECON COMMAND	NASA/RECONplus COMMAND
Database selection	B or Begin B A/E BB or Begin Bypass BB A/E	Choose one of the options under the "SELECT DATABASE" function: MAIN STI, NACA HOLDINGS.
Browsing	BR 1	OUTPUT; FILE CAPTURE
Combining existing sets to create new sets	COMBINE 1+2 or C 1+2	select COMBINE from FULL SEARCH menu or C 1&2 in COMMAND LINE
Checking session status	CURRENT or CU, CU D, CU FC	HISTORY provides some of the same elements as CU, but not all
Displaying search results	DISPLAY 8 OR D 8	DISPLAY RESULTS
End current search	END SEARCH, END, or E END SEARCH BYPASS or EB	EXIT
Search qualification	S or Select utp/'space station freedom'	TI space station freedom
Index display	Expand or X Expand au/grant, j. w.	<CTRL-L> Opens a box for the user to place a stem or a full term.
Ranking or tallying results	F or Frequency F 1	From the Review/Other function, select the TALLY or RANK function.
Help	Help x100 or help acc-range to open the information list.	<CTRL-E>
Keep set creation	K or Keep K 92A16339 or K 1	Sets of unlimited size may be developed using displays of set results and the key combination CTRL-G to mark and then save subsets as separate sets that can be combined later to produce customized sets suitable for use in ordering, or for display or printing. Changing databases does not affect the status of these sets; if the search history is saved, it can be replayed and reused as desired.
Search or set limiting	L or Limit or LA or Limit All LA 92 or L 1/92/a,n	PD 19910101 and DT journal article. Or an 92a* and TI space shuttle
Release limit	LIMIT RELEASE or LR	N/A
Order	ORDER or O 1	not implemented as of 1/26/96
Page forward and backward through displays	PAGE or P, P -	UP-PAGE; DN-PAGE
Stored Search creation & manipulation	QUERY or CR	SAVE SEARCH STRATEGY  REVISE
Line-for-line replacement	QUERY ALTER, Q ALTER, or Q A	REVISE
Resume interrupted execution of a stored sequence	QUERY CONTINUE, Q CONTINUE, or Q CO	N/A

Function	NASA/RECON COMMAND	NASA/RECONplus COMMAND
Prepare to create a new sequence for subsequent storing	QUERY CREATE, Q CREATE, or R Q CR	REVISE
Delete last entered command from the sequence being created or edited	QUERY DELETE, Q DELETE, or Q D	REVISE
Display First Page of a stored sequence with the given sequence name	QUERY DISPLAY, Q DISPLAY, Q DIS	MANAGE FILES, VIEW
Modify existing stored sequence	QUERY EDIT, Q EDIT, Q ED	REVISE
Execute stored search	QUERY EXECUTE, Q EXECUTE, or Q EX	REPLAY SEARCH STRATEGY
Listing of stored search command sequence	QUERY LIST, Q LIST, or Q L	MANAGE FILES; VIEW
List of user sequence names	QUERY MEMBER, Q MEMBER, or QM	MANAGE FILES
Pause execution of stored search	QUERY PAUSE, Q PAUSE, or Q PA	N/A
Return user to normal mode or purge stored sequence	QUERY PURGE, Q PURGE, or Q PU	MANAGE FILES; ERASE
Leave query mode	QUERY QUIT, Q QUIT, or Q Q	REVISE
Replace stored sequence	QUERY REPLACE, or Q REPLACE	REVISE
Save sequence of commands	QUERY SAVE, Q SAVE, or Q S	SAVE SEARCH STRATEGY
Do not execute one or more commands in the sequence	!	N/A
Execute command in the sequence but do not store it	/	N/A
Adjust set numbers in stored sequence	#	N/A
Release sets	RELEASE or R	DISCARD SET
Enter multiple SELECT and COMBINE commands with one entry	SEARCH or SE	ENTER in Quick Search FIND in Full Search ENTER in Command Line
Create set of accessions related to an index	SELECT or S	As above

Function	NASA/RECON COMMAND	NASA/RECONplus COMMAND
Verify status of current sets	SET STATUS or SS	<CTRL-X>; HISTORY
Disconnect dial-up connection and end search	SIGNOFF	EXIT
Signon	SIGNON	ID; password
Set sorting	so l/m (ex.)	In Command Line, TI space shuttle SORT by PD,AU (ex.), or from Review/Other menu, SORT option.
Design user-specified format	SPECIFY FORMAT or SF	USER SELECTABLE DISPLAY FORMAT
Print local	TYPE or T	OUTPUT

# **APPENDIX C—Authorities Lists**

**Two-character Country Codes**

**Two-character State Codes**

**Document Type**

**Language**

**Media Type**



## ▲ Appendix C—Authorities Lists

### △ Two Character Country Codes

Afghanistan	AF	Bolivia	BO
Albania	AL	Bosnia and Hercegovina	BK
Algeria	DZ	Botswana	BW
American Samoa	AS	Bouvet Island	BV
Andorra	AD	Brazil	BR
Angola	AO	British Indian Ocean Territory	IO
Anguilla	AI	Brunei Darussalamy	BN
Antarctica	AQ	Bulgaria	BG
Antigua and Barbuda	AG	Burkina Faso	BF
Argentina	AR	Burundi	BI
Armenia	AM	Byelarus	BY
Aruba	AW	Cambodia	KH
Australia	AU	Cameroon	CM
Austria	AT	Canada	CA
Azerbaijan	AJ	Cape Verde	CV
Bahamas	BS	Cayman Islands	KY
Bahrain	BH	Central African Republic	CF
Bangladesh	BD	Chad	TD
Barbados	BB	Chile	CL
Belgium	BE	China	CN
Belize	BZ	Christmas Island	CX
Benin	BJ	Cocos (Keeling) Islands	CC
Bermuda	BM	Columbia	CO
Bhutan	BT	Comoros	KM

Congo	CG	German Democratic Republic	DD
Cook Islands	CK	Germany	DE
Costa Rica	CR	Ghana	GH
Croatia	HR	Gibraltar	GI
Cuba	CU	Greece	GR
Cyprus	CY	Greenland	GL
Czechoslovakia	CS	Grenada	GD
Denmark	DK	Guadeloupe	GP
Djibouti	DJ	Guam	GU
Dominica	DM	Guatemala	GT
Dominican Republic	DO	Guinea	GN
East Timor	TP	Guinea-Bissau	GW
Ecuador	EC	Guyana	GY
Egypt	EG	Haiti	HT
El Salvador	SV	Heard and Mcdonald Islands	HM
Equatorial Guinea	GQ	Honduras	HN
Estonia	EN	Hong Kong	HK
Ethiopia	ET	Hungary	HU
Falkland Islands (Malvinas)	FK	Iceland	IS
Faroe Islands	FO	India	IN
Fiji	FJ	Indonesia	ID
Finland	FI	International Organization	
France	FR	Iran (Islamic Republic of)	IR
French Guiana	GF	Iraq	IQ
French Polynesia	PF	Ireland	IE
French Southern Territ.	TF	Israel	IL
Gabon	GA	Italy	IT
Gambia	GM	Ivory Coast	CI
Georgia	GG		

Jamaica	JM	Malta	MT
Japan	JP	Marshall Islands	MH
Jordan	JO	Martinique	MQ
Kazakhstan	KZ	Mauritania	MR
Kenya	KE	Mauritius	MU
Kiribati	KI	Mexico	MX
Korea, Democratic People's Republic of	KP	Micronesia	FM
Korea, Republic of	KR	Moldova	MD
Kuwait	KW	Monaco	MC
Kyrgynstan	KG	Mongolia	MN
Lao People's Democratic Rep.	LA	Montenegro	MI
Latvia	LG	Montserrat	MS
Lebanon	LB	Morocco	MA
Lesotho	LS	Mozambique	MZ
Liberia	LR	Myanmar	MN
Libyan Arab Jamahiriya	LY	Namibia	NA
Liechtenstein	LI	Nauru	NR
Lithuania	LH	Nepal	NP
Luxembourg	LU	Netherlands	NL
Macau	MO	Netherlands Antilles	AN
Macedonia	MK	Neutral Zone	NT
Madagascar	MG	New Caledonia	NC
Malawai	MW	New Zealand	NZ
Malaysia	MY	Nicaragua	NI
Maldives	MV	Niger	NE
Mali	ML	Nigeria	NG

Niue	NU	Sao Tome and Principe	ST
Norfolk Island	NF	Saudi Arabia	SA
Northern Mariana Islands	MP	Senegal	SN
Norway	NO	Serbia	S1
Oman	OM	Seychelles	SC
Other	02	Sierra Leone	SL
Pakistan	PK	Singapore	SG
Palau	PW	Slovenia	SI
Panama	PA	Solomon Islands	SB
Papua New Guinea	PG	Somalia	SO
Paraguay	PY	South Africa	ZA
Peru	PE	Spain	ES
Philippines	PH	Sri Lanka	LK
Pitcairn	PN	St. Helena	SH
Poland	PL	St. Pierre and Miquelon	PM
Portugal	PT	Sudan	SD
Puerto Rico	PR	Suriname	SR
Qatar	QA	Svalbard and Jan Mayen Islands	SJ
Reunion	RE	Swaziland	SZ
Romania	RO	Sweden	SE
Russia	RS	Switzerland	CH
Rwanda	RW	Syrian Arab Republic	SY
Saint Kitts and Nevis	KN	Taiwan, Province of China	TW
Saint Lucia	LC	Tajikistan	TI
Saint Vincent and the Grendines	VC	Tanzania, United Republic of	TZ
Samoa	WS	Thailand	TH
San Marino	SM	Togo	TG

Tokelau	TK	Unknown	00
Tonga	TO	Uruguay	UY
Trinidad and Tobago	TT	Uzbekistan	UZ
Tunisia	TN	Vanuatu	VU
Turkey	TR	Vatican City State (Holy See)	VA
Turkmenistan	TX	Venezuela	VE
Turks and Caicos Islands	TC	Viet Nam	VN
Tuvalu	TV	Virgin Islands (British)	VG
USSR	SU	Virgin Islands (U.S.)	VI
Uganda	UG	Wallis and Futuna Islands	WF
Ukraine	UA	Yemen, Republic of	YE
United Arab Emirates	AE	Yugoslavia	YU
United Kingdom	GB	Zaire	ZR
United States Outlying Islands	US	Zambia	ZM
United States Minor Outlying Islands	UM	Zimbabwe	ZW

## △ Two Character State Codes

Alabama	AL	Nebraska	NE
Alaska	AK	Nevada	NV
Arizona	AZ	New Hampshire	NH
Arkansas	AR	New Jersey	NJ
California	CA	New Mexico	NM
Canal Zone	CZ	New York	NY
Colorado	CO	North Carolina	NC
Connecticut	CT	North Dakota	ND
Delaware	DE	Ohio	OH
District of Columbia	DC	Oklahoma	OK
Florida	FL	Oregon	OR
Georgia	GA	Pacific Island Territories	PI
Guam	GU	Pennsylvania	PA
Hawaii	HI	Peuro Rico	PR
Idaho	ID	Rhode Island	RI
Illinois	IL	South Carolina	SC
Indiana	IN	South Dakota	SD
Iowa	IA	Tennessee	TN
Kansas	KS	Texas	TX
Kentucky	KY	Utah	UT
Louisiana	LA	Vermont	VT
Maine	ME	Virgin Island	VI
Maryland	MD	Virginia	VA
Massachusetts	MA	Wake Island	WK
Michigan	MI	Washington	WA
Minnesota	MN	West Virginia	WV
Mississippi	MS	Wisconsin	WI
Missouri	MO	Wyoming	WY
Montana	MT		

## △ Document Type

Bibliography	Bibliog
Bibliographic Database	Bibdb
Book/Monograph	Book
Collected works	Collwork
Computer Program	Comprog
Conference Paper	Confpaper
Conference Proceedings	Confproc
Congressional Report	Congrpt
Contract	
Journal Issue	Jrnliiss
Journal Article	Jrnlartr
News Release/Speech	News
Numeric Database	Numdb
Patent Application	Patent/patentapp
Photograph	Photo
Preprint	
Presidential Report	Presrpt
Reprint	
Standard/Specification	Standard
NASA Tech Brief	Techbrief
Technical Report	Techrpt
PhD Dissertation	Thesis/Dissrt
Masters Thesis	Thesisms

## △ **Media**

Microfiche	MF
Hardcopy	HC
Audiotape	AT
Diskette	DK
Magnetic Tape	MT
Mixed Media	MM
Motion Picture	MP
Optical Disc	OD
Videotape	VT
Videotape: Beta	
Videotape: VHS	
Paper Copy	PC
Stock Copy	ST
CD Rom	CD



## △ Language

Other	00	Icelandic	IC
Unknown	00	Italian	IT
Afrikaans	AF	Japanese	JA
Albania	AL	Javanese	JV
Amharic	AM	Kashmiri	KA
Arabic	AR	Kirundi	KI
Armenian	AE	Korean	KO
Belorussian, White Russian	BE	Latin	LA
Bulgarian	BU	Latvian	LN
Burmese	BR	Lithuanian	LI
Cambodian	CA	Macedonian	MC
Chinese	CH	Malagasy	MS
Croatian	CR	Malay-Indonesian	MI
Czech	CZ	Malayalam	MA
Danish	DA	Malayan	ML
Dutch	DU	Maltese	MT
English	EN	Marathi	MR
Estonian	ES	Mixed	AA
Finnish	FI	Mongolian	MO
Flemish	FL	Nepali	NE
French	FR	Ngala	NG
Georgian	GE	Norwegian	NO
German	GM	Papuan	PA
Greek	GR	Persian	PE
Gujarati	GU	Polish	PO
Hebrew	HE	Portuguese	PR
Hindi	HI	Punjabi	PU
Hungarian	HU	Pushtu	PS
Romanian	RO	Swedish	SD
Russia	RU	Tagalogi	TA
Rwanda	RW	Tamil	TM
Serbia	SE	Telugu	TE

Serbo-Croatian	SC	Thai	TH
Singhalese	SI	Tibetan	TI
Slovak	SL	Turkish	TU
Slovene	SV	Ukrainian	UK
Somali	SO	Urdu	UR
Spanish	SP	Vietnamese	VI
Swahili	SW	Yiddish	YI

## **APPENDIX D—Sample Searches**

## ▲ Appendix D—Sample Searches

TO BE PROVIDED.

## ▲ Appendix E—Error Messages

Error Message	Symptom/Action	Cause	Solution
<p>( found out of sequence:</p> <p>An opening parenthesis cannot immediately follow a closing parenthesis, the NULL value, or a search word. For example, the following constructs are NOT allowed:</p> <p>BOAT (CAR,TRAIN)</p> <p>NULL (CAR,TRAIN)</p> <p>(CAR,TRAIN)(BOAT, TRUCK)</p> <p>The following are legal:</p> <p>(CAR,TRAIN) &amp; (BOAT,TRUCK)</p> <p>NULL OR (CAR,TRAIN)</p> <p>BOAT AND (CAR,TRAIN)</p>	A search has failed.	Your use of an opening parenthesis has violated the syntax rules of the RECONplus Command Language.	Please review your search statement for the error, correct the search statement, and resubmit your search.
(1849) The maximum number (20) of values in the value list of a field test was exceeded.	A search failed.	More than 20 values were listed after an index name search tag in a search statement.	Please review your search statement for the error, correct the search statement, and resubmit your search.

Error Message	Symptom/Action	Cause	Solution
(1940 ) The value to be compared with a field defined with LEGAL=DATE, TODAY, PAST_DATE or TURURE_DATE attributes is not a proper date.	A search failed.	The date field contains a partial date (YYYY). Only numeric fields may be searched using a partial date.	Search non-numeric fields such as date fields using the date range format, YYYYMMDD:YYYYMMDD For example, 19950101:19951201
(804) Network initialization error.	Logon or Request-Doc functions failed.	User privileges cannot be determined and the initial link cannot be established.	Contact System Administrator.
(805) Order Not Processed.  There were no documents in the requested media.	Order not processed.	Documents were processed but none were found to match request.	Check the availability (AV) field of the desired document(s) and resubmit your order.
(806) Not All Documents Available	Documents not available in the requested media were deleted from your order.	The media requested was not available for one or more of the ordered documents.	Check the availability (AV) field of the desired document(s) and resubmit your order.
) found out of sequence:  A closing parenthesis can only follow a search term, or another closing parenthesis if you have a nested set of parentheses.  The following are not allowed:  BOAT, CAR) (BOAT,CAR) OR )	A search failed.	Your use of a closing parenthesis has violated the syntax rules of the RECONplus Command Language.	Please review your search statement for the error, correct the search statement, and resubmit your search.

Error Message	Symptom/Action	Cause	Solution
A help message for this field has not been defined.  Please contact the System Administrator after noting the field name.	An attempt to view the Help text (<CTRL-E>) failed.	No Help text is loaded for the field for which you requested help.	Contact the Access Help Desk and report the problem; they will pass it to the System Administrator. Please give the name of the field/operation for which you attempted to obtain help to the Access Help Desk when you call.
A previous set does not exist.	Several actions may generate this error message.	You have attempted an operation that requires that a previous set exist when there is none.	Create or load a search set; then attempt the operation again.
An AND (&) or OR (;) was found out of order. They can only appear following a valid search term to separate multiple search terms, or multiple field searches	A search failed.	Search statement contains a syntax error.	Please review your search statement for the error, correct the search statement, and resubmit your search.
An error occurred while formulating your search. Please note the search attempted, and contact the Access Help Desk.	An attempted search failed.	The system did not properly parse your search request and was unable to complete the search.	Contact the Access Help Desk. Please tell them exactly how you attempted the search.

Error Message	Symptom/Action	Cause	Solution
<p>AND/OR out of order.</p> <p>An AND (&amp;) or OR (;) must appear between a set number. It cannot be anywhere else in the Combine command.</p>	A Combine command failed.	Your use of AND or OR has violated the syntax rules for the Combine command.	Please review your search statement for the error, correct the search statement, and resubmit your search.
<p>Error (1940) The value to be compared with a field defined with DATE; attribute is not a proper date</p>	<p>Searching on Date Field using an entered date like:</p> <p>February 30, 19 xx</p>	Invalid syntax in date field.	<p>Check date field for typographical error or invalid syntax. Search non-numeric fields such as date fields using the date range format YYYYMMDD:YYY YMMDD. Search numeric fields using either the date range format or a partial date (YYYY).</p> <p>For example, 19950101:19951201 1995</p>
<p>Error (676) Please check the specified search criterion.</p>	Entered command: C0.	<p>Syntax error: You entered C0 (c-zero) rather than:</p> <p>CO (c-oh)</p>	Re-enter the command using the character O rather than the number zero.



<b>Error Message</b>	<b>Symptom/Action</b>	<b>Cause</b>	<b>Solution</b>
Error in Select ... contact System Administrator.	A Select operation failed.	A system error has occurred.	Contact the Access Help Desk and report the problem; they will pass it to the System Administrator. Please be ready to tell them the steps you had taken when the error was generated.
ERROR EXIT --- (4006 ) No active kernel exists for the given Kernel name. Logging off ....	RECONplus goes down while you are working.	The system is temporarily unavailable.	Try again later or call the Access Help Desk.
Errors in parenthesis. A closing parenthesis ) was found without a corresponding opening parenthesis. Please correct your search and resubmit.	A search failed.	When parentheses are used in a search they must be balanced.	Review your search statement to find the error. Correct the search and resubmit.
Errors in quoted strings.  You have started a quoted string (a string between single quotes) but have failed to provide the closing quote mark. Please correct your search and resubmit.	A search failed.	When quotes are used in a search they must be balanced.	Review your search statement to find the error. Correct the search and resubmit.

Error Message	Symptom/Action	Cause	Solution
<p>Errors in parenthesis</p> <p>The number of opening parentheses ( do not match the number of closing parenthesis. ) Most likely, you forgot one or more closing parentheses. Please correct your search and resubmit.</p>	A search failed.	When parentheses are used in a search they must be balanced.	Review your search statement to find the error. Correct the search and resubmit.
<p>Expand Index/Field List (CTRL-L) is not available for this field.</p> <p>Press CTRL-E for help on searching this field.</p>	An Expand Index operation failed or an attempt to get a field list (<CTRL-L>) failed.	Index expansion or a field list is not available for the field chosen.	Press <CTRL-E> and follow the instructions in the help text for that field. If you have further questions, please call the Access Help Desk.
<p>Field not sortable.</p> <p>A field in your sort clause is not sortable. Most likely, the field specified is an Index Only field.</p>	A SORT BY command has failed.	You have attempted to SORT BY a field which is not a sortable field.	Please review your search statement for the error, correct the search statement, and resubmit your search.

Error Message	Symptom/Action	Cause	Solution
<p>Invalid use of OR (;) or AND (&amp;):</p> <p>AND (&amp; ) or OR (;) can only used to separate terms, or series of terms grouped by parenthesis. For example, valid uses include:</p> <p>CAR, BOAT;TRAIN</p> <p>CAR &amp; BOAT &amp; TRAIN</p> <p>(CAR &amp; BOAT) ; (TRAIN &amp; TRUCK)</p> <p>NULL; BOAT</p> <p>You may have entered two semicolons in a row, or a semicolon followed by OR, etc. Please correct your search and resubmit.</p>	A search failed.	Your use of OR or AND has violated the syntax rules for the RECONplus Command Language.	Please review your search statement for the error, correct the search statement, and resubmit your search.
<p>Invalid SORT BY parameter.</p> <p>Only field names, ASC, DES, or EVERY are allowed following the SORT BY clause.</p>	A Sort by command has failed.	Your use of Sort By has violated the syntax rules for the Sort by command. Sort By may only be followed by field names, ASC, DSC, or EVERY.	Please review your search statement for the error, correct the search statement, and resubmit your search.

<b>Error Message</b>	<b>Symptom/Action</b>	<b>Cause</b>	<b>Solution</b>
<p>Invalid sequence of search terms:</p> <p>A word or group of words is being interpreted as a search term, but is not properly set apart by ; &amp; OR AND NOT.</p>	A search failed.	A word or group of words appears to the system to be a search term but is not set apart by a Boolean operator.	Please review your search statement for the error, correct the search statement, and resubmit your search.
<p>Invalid argument on the proximity operator:</p> <p>You are using the W# or WN# operator, but the number argument is in error. The following are legal: W#5 W#15.</p> <p>The following are not: W# 5 w#-1!.</p>	A search involving a proximity operator has failed.	Your search statement has violated the syntax rules associated with the use of the proximity operator.	<p>Please review your search statement for the error, correct the search statement, and resubmit your search.</p> <p>Please refer to the documentation or call the Access Help Desk if you need assistance formulating the search statement with the proper use of the proximity operator.</p>
<p>Invalid set number.</p> <p>A set number specified as part of a narrowing/combining search is not a valid set number. Most likely, the set specified has not been created yet.</p>	A Combine/Narrow search has failed.	You entered the set number of a set that is not valid or does not exist.	Please review your search statement for the error, correct the search statement, and resubmit your search.

<b>Error Message</b>	<b>Symptom/Action</b>	<b>Cause</b>	<b>Solution</b>
<p>Last item is not a valid terminator.</p> <p>The last item you supplied in your search string must be a search term or phrase, or a closing parenthesis.</p>	A search failed.	The last item in your search string was not a search term, phrase, or closing parenthesis.	Please review your search statement for the error, correct the search statement, and resubmit your search.
None.	Entering a valid author name: James Smith produces zero records.	Author name field format is not entered correctly.	<p>Complete Author name field format in correct order with punctuation:</p> <p>Last, First, Middle, Suffix. Enter name: Smith, James.</p>
<p>NOT out of sequence:</p> <p>A NOT cannot follow an operator (&gt;, &lt;, =, GE, EQ, etc). For example, EQ NOT BOAT is not allowed.</p>	A search using NOT has failed.	You have used NOT following an operator.	Please review your search statement for the error, correct the search statement, and resubmit your search.
<p>Nothing to sort.</p> <p>You have specified a SORT BY without having a search expression preceding it.</p>	A Sort By command has failed.	No search expression preceded the Sort By command.	Please review your search statement for the error, correct the search statement, and resubmit your search.

Error Message	Symptom/Action	Cause	Solution
Number of copies must be between 1 and 100	Number of copies entered in Request-Docs command is less than 1 or greater than 100.	Number of copies must be greater than 1 or less than 100.	Correct the number of copies requested using the Request-Docs command.
<p>NULL out of sequence:</p> <p>A NULL was found out of sequence. A NULL must be treated like any other term, so it should either be the first item on the line, or follow one of the following: ; &amp; AND OR NOT (</p>	A search using the NULL operator failed.	Your use of a NULL operator has violated the syntax rules for the RECONplus Command Language.	Please review your search statement for the error, correct the search statement, and resubmit your search.
<p>NULL not allowed:</p> <p>The NULL operator is not allowed when searching a text stream field.</p>	A search using the NULL operator failed.	You have attempted to use the NULL operator in a text stream field.	Please review your search statement for the error, correct the search statement, and resubmit your search.
<p>Operator found out of sequence:</p> <p>One of the operators (&gt;, &lt;, &gt;=, &lt;=, =, &lt;&gt;, NE, EQ, GT, GE, LT, LE) was found out of sequence. An operator must be the first item in a search, or follow one of the following: ; &amp; ) OR AND NOT</p>	A search failed.	Your use of an operator (>, <, >=, <=, =, <>, NE, EQ, GT, GE, LT, LE) has violated the syntax rules for the RECONplus Command Language.	Please review your search statement for the error, correct the search statement, and resubmit your search.

<b>Error Message</b>	<b>Symptom/Action</b>	<b>Cause</b>	<b>Solution</b>
Operator out of order.  An operator (INC, PH, =, etc.) must follow a valid field name.	A search has failed.	An operator was found in a position other than following a valid field name.	Please review your search statement for the error, correct the search statement, and resubmit your search.
Order Not Processed  An error occurred processing your order. The order has been canceled. Please contact the help desk for further assistance.	Order not processed.	The communication between the CBI and the CASI document order system is down.	Try again or call the Access Help Desk to place the order manually.
Order Items Not Marked  You did not mark any of the media types for ordering. Order canceled.	Order canceled.	Media types for Request-Doc function (ordering) have not been marked.	Mark desired media for the selected document and resubmit your order.
Proximity operator out of sequence:  A proximity operator must appear between 2 terms. The proximity operator is NOT valid when used with a phrase.  For example, the following is not allowed:  CAR W#5 POWER BOAT  CAR W#5 BOAT W#5 TRAIN  but the following is legal:  CAR W#5 POWER	A search involving a proximity operator has failed.	Your search statement has violated the syntax rules associated with the use of the proximity operator.	Please review your search statement for the error, correct the search statement, and resubmit your search.  Please refer to the documentation or call the Access Help Desk if you need assistance formulating the search statement with the proper use of the proximity operator.

<b>Error Message</b>	<b>Symptom/Action</b>	<b>Cause</b>	<b>Solution</b>
<p>Proximity searching not allowed:</p> <p>The field you are currently in requires an exact match. It may be a date field, or contain a discrete numerical value. You cannot use the W# or WN# constructs in this field.</p>	<p>A search involving a proximity operator has failed.</p>	<p>You have attempted to search a field requiring an exact match using a proximity operator.</p>	<p>Please review your search statement for the error, correct the search statement, and resubmit your search.</p> <p>Please refer to the documentation or call the Access Help Desk if you need assistance formulating the search statement using an exact match rather than proximity.</p>
<p>Record requested is not currently available.</p> <p>Contact the System Administrator if you have further questions.</p>	<p>A requested record is not displayed.</p>	<p>The record is not being made available for display.</p>	<p>Contact the Access Help Desk and report the problem; they will pass it to the System Administrator. Please be ready to tell them (1) the steps you had taken when the error was generated, and (2) the document number for the record that did not display.</p>
<p>Search term out of order.</p> <p>A search term was found out of order. A search term should be placed following a field name, or following a valid operator.</p>	<p>A search failed.</p>	<p>A search term was not properly placed in your search statement. A search term should be placed following a field name, or following a valid operator.</p>	<p>Please review your search statement for the error, correct the search statement, and resubmit your search.</p>



<b>Error Message</b>	<b>Symptom/Action</b>	<b>Cause</b>	<b>Solution</b>
Set number out of order.  The set number must follow the COMBINE keyword, and must be separated by a valid operator (AND/OR/NOT)	A Combine command failed.	Your placement of a set number has violated the syntax rules for the Combine command.	Please review your search statement for the error, correct the search statement, and resubmit your search.
SORT BY specified twice.  SORT BY can only appear once in your search expression.	A SORT BY command has failed.	You have specified SORT BY twice in the search statement.	Please review your search statement for the error, correct the search statement, and resubmit your search.
System Error...Contact System Administrator.  Error setting up database view.	System error generated.	An internal error occurred in the database.	Contact the Access Help Desk and report the problem; they will pass it to the System Administrator. Please be ready to tell them the steps you had taken when the error was generated.
System Error...Contact System Administrator.  Searching of the database is not available.	System error generated.	An internal error occurred in the database.	Contact the Access Help Desk and report the problem; they will pass it to the System Administrator. Please be ready to tell them the steps you had taken when the error was generated.

<b>Error Message</b>	<b>Symptom/Action</b>	<b>Cause</b>	<b>Solution</b>
System Error...Contact System Administrator.  Error setting user variable, variable not set.	System error generated.	An internal error occurred in the database.	Contact the Access Help Desk and report the problem; they will pass it to the System Administrator. Please be ready to tell them the steps you had taken when the error was generated.
The specified control module (Kernel) is not connected to the user process (possible remote disconnect)	The kernel becomes unavailable while you are working.	Processing becomes temporarily unavailable.	Try again later or call the Access Help Desk.
The Help File is not available. Please contact the System Administrator.	An attempt to view the Help text (<CTRL-E>) failed.	The system is unable to read the Help file.	Contact the Access Help Desk and report the problem; they will pass it to the System Administrator. Please be ready to tell them the steps you had taken when the error was generated.
There are no active search sets.	Several actions may generate this error message.	You have attempted an operation that requires that an active search set exist when there are none.	Create or load a search set; then attempt the operation again.

Error Message	Symptom/Action	Cause	Solution
<p>There are no printers defined. Printers must be defined by the System Administrator prior to generating any output.</p> <p>Contact the System Administrator.</p>	A print command failed.	<p><b>NOTE:</b> This error message will be generated only by an attempt to print at CASI.</p> <p>No printer at CASI has been defined for you or you do not have the privileges to print documents on a CASI printer.</p>	<p>If you believe you have the privileges to print at CASI and you intended to print the document(s) at CASI, call the Access Help Desk.</p> <p>If you do not have the privileges to print documents at CASI or did not intend to print at CASI, select another print method from the Output menu.</p>
<p>There was an error opening the file. Operation canceled.</p>	An operation requiring that a stored file be opened failed.	The system was unable to open the file you requested.	Contact the Access Help Desk and report the problem. Please give them the exact name of the file you were attempting to open.
Too many names in a single Author field.	Entering multiple author names.	Failed to enter operators such as AND (&) or OR (;) between multiple author names.	Each author name must be separated by operators such as AND (&) or OR (;).
<p>W# or WN# is not allowed for this field.</p> <p>The field being searched is not word indexed, so the W# and WN# operators are not allowed.</p>	A search involving the proximity operator has failed.	The proximity operator is not allowed for the field being searched.	Please reformulate your search without the use of the proximity operator.
<p>W# or WN# found out of order.</p> <p>The W# or WN# operators must appear between 2 search terms.</p>	A search using the proximity operator has failed.	The proximity operator was placed other than between two search terms.	Please review your search statement for the error, correct the search statement, and resubmit your search.

<b>Error Message</b>	<b>Symptom/Action</b>	<b>Cause</b>	<b>Solution</b>
You must close the database before opening a new one.	Attempt to open a database fails.	Only one database may be open at a time.	Close the current database; then open the new one.
You have not selected any items.	Creating a subset of a record.	You have selected subset without first selecting or highlighting the record from which you want a subset.	Select a record by highlighting it.

# **APPENDIX F--RECON to RECONplus Database Comparison**

## ▲ Appendix F—RECON to RECONplus Database Comparison

Databases formerly available in RECON that were found to be duplicates or obsolete have not been included in the RECONplus databases.

### Main STI Database

CPA	Computer Program Abstracts (COSMIC)	1M	Current year only
IAA	International Aerospace Abstracts	1A	1968-1993
OSTARE	Older STAR Extended	7N	1968-
OLP	Open Literature	60A	1994-
R&DCS	R&D Contract Search	1K	1979-
STAR	Scientific and Technical Aerospace Reports	1N	1968-
TB	NASA Tech Briefs	1B	1963-

### Controlled Distribution STI Database

CSTAR	Limited & Classified STAR	1X	1968-
OCSTAR	Older Classified STAR Extended	7X	1968-
PREVIEW/SBIR	Preview/SBIR	36X	Current only

### Older STI Database

OSTAR	Older STAR	8N	1963-1967
LCAMB	Aerospace Med & Biol (Lib of Congress)	8A	1964-1969
IAAA	International Aerospace Abstrs - Alternate File	1A	1963-1967
STARA	STAR-Alternate File	1N	1962-1967

### Older Controlled Distribution STI Database

CSTARA	Limited and Classified STAR - Alternate File	1N	1962-1967
OCSTAR	Older Classified STAR	8X	1963-1967

### Early Aviation Collections (these two files will not be combined)

CNACA	NACA Holdings File	1R	1915-1962
NACA	NACA Historical File	1H	1915-1962

## **APPENDIX G—Display Components**

## △ Appendix G—Display Components

The following chart identifies the display components by name and two character abbreviation and the fields that are included. These components are selected to form a user selected display format. All fields within a component are selected when a component is selected.

<b>Display Component Name</b>	<b>Abbreviation</b>	<b>Included Fields</b>
Abstract	AB	Abstract Abstract Source
Author	AU	Author Relation to Document (blank if author) Author Affiliation Author Affiliation Country Incomplete List of Authors (et. al.) Author Note (Tech Briefs only)
Availability Note	AVNT	Main Document Availability Note
Contract Number	CN	Contract Number
Document Language	LA	Language
Document Type	DT	Document Type
Financial Sponsor	FS	Financial Sponsor Subordinate Unit of Financial Sponsor Financial Sponsor Location & Country Financial Sponsor Type
Foreign Title	FT	Foreign Title Foreign Number of Part Foreign Name of Part Language of Foreign Title
General Note	GRN	General Note
Grant Number	GN	Grant Number



<b>Display Component Name</b>	<b>Abbreviation</b>	<b>Included Fields</b>
Header		Document ID Number File Segmentation Code Previous Accession Number Initial Microfiche Distribution Copyright Indicator Database Code Deletion Note Actual Deletion Date Date Flagged for Deletion Security Classification Restriction on Access
Identifier	ID	Identifier
ISBN	ISBN	International Standard Book Number
ISSN	ISSN	International Standard Serial Number
Main Document Availability	AV	Main Document Availability Format Main Document Availability Subformat Main Document Availability Source Main Document Price or Price Code Main Document Number of Diskettes Total Pages Tech Briefs Order Number
Major Controlled Terms	CTMJ	Controlled Terms - Major
Meeting Sponsor	MS	Meeting Sponsor Meeting Sponsor Location & Country Miscellaneous Meeting Information
Meeting Name	MN	Meeting Name Meeting Location Meeting Country (?) Textual Meeting Date
Minor Controlled Terms	CTMN	Controlled Terms - Minor
NACA Shelf List Number	SL	Shelf List Location
NACA Holdings	HO	NACA Holdings
Nonprint Number	NP	Nonprint Number

<b>Display Component Name</b>	<b>Abbreviation</b>	<b>Included Fields</b>
Organization Source	OS	Organization Source Subordinate Unit of Organization Source Organization Source Location & Country
Patent Number	PN	Patent/Application Number Legal Case Number Filed Date
Physical Description	PH	Other Physical Characteristics Accompanying Material
Project Number	PJN	Project Number
Publication Date	PD	Textual Publication Date
Publication	PB	Place Country of Publication Publisher
Report Number	RN	Report Number Contract Number Contract Date Range Incomplete List of Contract Numbers Grant Number Grant Period Project Task Number, Work Unit Number, etc. Project Period
See Also	SEE	Relationship Information Control Number of Related Item Accession Number of Related Item Title of Related Item
Series Title	ST	Series Title Number of Series Part of Series Volume of Series

<b>Display Component Name</b>	<b>Abbreviation</b>	<b>Included Fields</b>
Source (Journal Title)	Source	Journal Title/Source Volume Issue Pages
Source Note	SN	Bibliographic History Notes Imprint Note (IAA 1972-1993) Imprint Note (1962-1963) Primary Note Presentation Note Supplement Note
Subject Category	SC	Subject Category Code Spelled-out Subject Category
Summary Language	LAS	Summary Language
Technical Note	TN	Technical Details Note
Title	TI	Title Number of Part Name of Part Version (COSMIC only) Title Extension Title Supplement Type of Progress Report Period Covered